

<213> Zea mays

<223> Clone ID: LIB3066-043-Q1-K1-A8

<400> 26820

aaaaaacata aaaaaaaaca aaaaaaaaaa gaaaaaataa ataataataa taaaaagaaa 60

aagggaacaa atataaataa taaaaaaaaa taaataaata aat 103

<210> 26821

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-043-Q1-K1-C7

<400> 26821

caaagtcgca ataacttgtc ttctcgaatc ggctgcaacc ccaccccaga cccaccgcc 60

gccgccgcta gggttttggg gtgaggatcg ccgatgtcga cggctcccag gcgtcccttc 120

cgaggccgcy gcgccatgcc ctccgggcacc ggctacgtcc gccgcggccc cgccccaggc 180

tccgccgacg ccgccaaagcc cctgcgcaag cccgtcttca ccaccgtcga ccagcttcgc 240

ccccagacac acgggtcacac tctcacagcc cgcgtcattg ccgtccgcac cgtcctcgac 300

aagccctcca cgcacctcgg ccgcacccgc gtcgccgagt gcctcgtcgg agacagcacc 360

ggcaccgtcc tcgtcaccgc ccgcaacgaa caggttgacc ttttgaagcc agatacaaca 420

gtgatcttcc gcaat 435

<210> 26822

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-043-Q1-K1-D6

<400> 26822

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tggaggcctc tccttccgca atgtcctcaa catcctccag aatttgcagg gtgacgttgt 120

cgccgctgat gtggtggagt tcaaccacac gcgtgacacg gtagatggga tgacagccat 180

ggtcgccgcy aagctggttc gggagctcac tgctaagatc tccaagtga acggtcagga 240



ttgcaccact cttcttgaag caaagcgaaa ggggtgggttt tgatgtcccg gtggttattg 300  
 gtcattgggttt ctatgtatcg agcaccaaat tgttcgacat gtgacagggtt tatatgttaa 360  
 ttaggttgca ataacaccat aatggtttat ttaaaaaaaaa aaaaaattna aaa 413

<210> 26823  
 <211> 266  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-043-Q1-K1-F12

<400> 26823

gggaaataaa ttaccttaata taaatttgct gatcaagccc aaaatggctt cattctcgtg 60  
 cgatccacac gtcaacacac aaaagactgt gaaaatagat tacggagatc actagaagct 120  
 agcgggaagac tggttggtcat ataggcctta ctctcgctaa ttcacatatt cattgccctt 180  
 atcacaatcc tacatcaact gcttacacta cactcaaaaa cctctttaat ctatgtaata 240  
 acgaacagcc ttttctatac actctg 266

<210> 26824  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-043-Q1-K1-H4

<400> 26824

cccacgcgtc cgagcgggtc ttgtccgcgc cacaagatac caattggtgc gctgggaata 60  
 ttcagttacg atgaccgct ttagttcagt tttttttttg ggggggttggt ttcgatcatt 120  
 tggctgtagc gtgaatcgca tggacaacag actccaatta ctaagcaaatt atttttgttc 180  
 tgcataatatt ggaagaacct tgttcaggcc ccccttttga aatgaaatgc gtgaaatttt 240  
 gttcttggtc aaacaagggc tctgcgtgct gcaccggat 279

<210> 26825  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-044-Q1-K1-A7

<400> 26825

gagctcgaga gcatcgccag cacgtccgcc gagggcaaacc gccagcttct cgcggcggag 60

gagctccccg acgagctcgc cggtaagcga gagctgctgt cccggacgct catggggatc 120

gacgaggcgg ccaccgaggc caagcgccag cttgatgagg cgacgacgga gaacaccatg 180

tccggcgacc acaggggtact gaccacgggc ctcatcgga cgttcgatga gatccaagac 240

gggcgcagcg ggtgcgcgc cagcgacttc cccaagtggc tgccggccac ccagcggagg 300

ctcctgcagc agaccagaa gcctaacacg gtggtcggcc aggacgggag c 351

<210> 26826

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-044-Q1-K1-B10

<400> 26826

cccacgcgtc cgcttttttc cctagttgg aagttttctt actcaattga atgaacgagg 60

gaacttattg catactatca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaggac ggacaatata aaagaatcaa gctataagaa cacatgcatg 180

caacgtcata gctcttaata tagtgttacc taaattcaat ta 222

<210> 26827

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-044-Q1-K1-B9

<400> 26827

acataataaa tgaataaggc ttttattgat tgcgtttctt cttttcatgc atgtaacaag 60

gccggaaccg gaaaccctag aacatattta tatacgtacg tatccaacag cagcacatac 120

atatacctgt aaggaaatta aaataattcg atatattccg tacccttgg aaagaccttt 180

ttgcatccat ctgcatgcat attataatct atattatatt gatgtagatc ccggccc 237

<210> 26828

<211> 83

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3066-044-Q1-K1-C7  
 <400> 26828  
 aatataacaa aaaaattttt tatattcaat taatttatat taatcaaata atttaatttt 60  
 aatgtatcac attttcatac tta 83

<210> 26829  
 <211> 339  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3066-044-Q1-K1-C8  
 <400> 26829  
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 agtaacacag cagcagaaca tcaaaccat ctctgccag gctctgagca aacgccaaag 120  
 cctccaacgt ggcacctacg taccgtaccc cagtcaccca cccacaccc tacctcgctc 180  
 gcagtcacag ctcccgctgt acgcacacta ctgcgcggtg cacgcaccga cgacacggcg 240  
 gcgcagctta tgtatgagta agtataggga ctgccatac aggtagtcac cgacgcgtgc 300  
 caccocgtct agcgatcgaa cacagtcgac ggggaacgc 339

<210> 26830  
 <211> 359  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3066-045-Q1-K1-B6  
 <400> 26830  
 cctgatttct ctggttcctt gtgactatta ctaccgtttg tgcgagcacg caaatgtatg 60  
 ggttgcatta ttgctgatag catctgttcg ttggccagat gagtagagag ctgaaaaaat 120  
 gttagaaca ccatagagag aagtccatcc gttctctctc aacttaagga gcaaacagca 180  
 acacttaatt tttttctgc tttactgttt attagtcgcg ttacatttgt gaacagttat 240  
 tgtaatatct ttttttaact ctgtattcgt agtgagatga aattcgtgtg tgggcaacaa 300  
 aaaatacaaa gataacgaac gaatgcatgc aacgacataa caataatata gagaaaact 359

<210> 26831  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3066-045-Q1-K1-D10

<400> 26831

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgtgcg gacgcgtggt 60  
gtgatgggta ccaggatgag aaacggatta tgaagatatt agtttcattt tcatccatga 120  
atagaagcta aaagtggat catatctatg aatggtttca attgcttttc tgttacaacc 180  
acattatttg ctatatacga ttcacagtac ctgccagttg attccattgg ttgtttctgt 240  
aaaacaaata tcaatttgtc actagaatct gtgatgtttg tatgtaaaca ggtactctat 300  
tcatgtgaga catatatgtc ttttctatca caatgaagat gtcagaa 347

<210> 26832  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3066-045-Q1-K1-D11

<400> 26832

cgctcatggt cggcaagagg agcaccaagg tgggatcccc acgagcagag tgcttcaagg 60  
ggggcgtggt catcacatgc aactactatg ccacggacct caagaagaag aacaagaaga 120  
agaagaagag caccaccaac tgaactcatg atttccagct agcttcttcc agttttgagc 180  
caagcatgga tcttgtacaa ttaattgatc tcagtatacc ttcaaaatta tcatcactac 240  
aatatataat tcgccaagc atagatatat aataatcaat cagttcatcc aaaataaaaa 300  
gcgctcacgg taaaa 315

<210> 26833  
<211> 465  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3066-045-Q1-K1-G10

<400> 26833

gcggaagtgc atcattctga catgcagctt caccacagga tcttgctcgt tgactgcata 60  
 caaggtgacg ccaagcgggtt acgagtgggg acgcagcaac aaggacaacg gaagcaatcc 120  
 acatggatac cttccaactc actacgagaa ggtccagatg cttctgagcg accgcttcct 180  
 tggattctac atgggtccgg ataacgctcc ttggaacttc aacttcattg gagtgaagca 240  
 cgacccacag atgaagtaca acatgaagct gggcatgccc cgggacttct atcacgagga 300  
 ccacaagcca acacacttgc tcgagttcag caacattgaa gatgggtgagg ccgctgaaag 360  
 cgatagggag gacacattca cgtatgcgcc tgtagaagaa tgctctgttt taacggcagt 420  
 gtgtgtagct gtaaactgac ttgacgggtg tcatctgttc gcctg 465

<210> 26834  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3066-045-Q1-K1-H4  
 <400> 26834

cccacgcgtc cgcccacgcg tccgcgccta ccaggaggcc ctcggcgggc tgcacaacct 60  
 gttcggcggg ccgagcgtgg tgcgcgtgtc ccagtgcgac gggccccact gcttcgccgt 120  
 gacgcgcgcc gccgcgggcc cgttctgcgc cgacgtgtc cgcgcgatgc atcacgagcc 180  
 cgaggtgatg tacgaggtgc tgaagcagag gaccgacggc gccacggccg tcgtcctcgc 240  
 ccgggccttc ggcgcaatgc cgtacctggt gttagacccc gagggccgcg tgatgtccg 300  
 cggcgagagc agcgactcgg agcggtc 327

<210> 26835  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3066-046-Q1-K1-C7  
 <400> 26835

cggacgcgtg ggcggacgcg tggggtttgt tgaacacata ctgcagcttt ccatgtgcc 60  
 gtattcggta gacctatgat ttttcgtca gtgaagcata cgctgtggga ccaggtgcc 120

aataggccaa gactacagct ttcaagaact tgtatatttac aaactatcca tccatcttga 180  
gtgaactcag cegtcttggt ctttgatcaa gctcagccag gacaacagtc tcctgctttt 240  
tcctttcctt tgtgattgga tttgttgga ttgaaccaat cttgtcaaac gcgaatgtca 300  
agagttcatc aggggtcatat agatgatgtg tgggtgtttg caaaccacg cgtncgtaga 360  
tcgcga 366

<210> 26836  
<211> 87  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3066-046-Q1-K1-D1

<400> 26836

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccgcc cacgcgtgcg 60  
cggacgcgtg ggctagttct agatcgc 87

<210> 26837  
<211> 176  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3066-046-Q1-K1-H8

<400> 26837

gcgagaggca agggacgtaa gaagtcttct aattctatat cattcagttc ggggtccgtga 60  
acgtagcatc tccttgtaac catatataca tgcccgcgct atctatgagc attgcagaca 120  
ttcggataac gaacgttctc atctcaaaac tcttctcctg atcctggctc accggc 176

<210> 26838  
<211> 219  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3066-047-Q1-K1-C12

<400> 26838

acgcaataat tttaactaat aaatacttgt tgcgatatat tcattcaatt ccactcacgc 60  
gtcctgagca agcaacaaca atatgttccg gccgacaaac aaaacaaaa aaaaaacaca 120

ctgaacccaa taatcccact ccacaaaaac ttttatctca agccattcga tcgatcacag 180  
 ncgtgtcgtt ctgcagacac cattaatacc cagaaccat 219

<210> 26839  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-047-Q1-K1-C4

<400> 26839

cttctggtgt ttttttacia tactaccttt cccatatttt ttttcatttc aaaaaatact 60  
 accactttta acccatcatc ttcaatgtct cgtacaatcc cattcccaaa aagcattccc 120  
 aacaaatgac tgcgatatca ttaataccca cttcgagtgc aacaaccac ataacaccaa 180  
 cagtagcaaa ttcattatac ccttcaaata catccacacc caccacatgg ccttcctatc 240  
 acattcatgg tcaacatcca ccaaagttga caaacgatct tcaaaatcca aacttacata 300

<210> 26840  
 <211> 337  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-047-Q1-K1-D4

<400> 26840

gagtgtttat ctctgttcgt ctctgttttg ttgttgccca tctgtgtttt tggttgaagg 60  
 tcgctctgtg tcagttgtta gtgctgtgtt catcctctgc tccagcagac ccatgcatca 120  
 accagcatgg actgcggatc gatgggtgct gttacccccg tcaggcttta ttctaagtta 180  
 aatcctaagg aaaaaaatgg tgcttcttgg tgctgcaaaa tggttgtgct catttgaaaa 240  
 actacatact ctctgtttga gtgcgaatca aggcaaaggc tgccagtttt tcaaacagct 300  
 aatagcaaca gctgattaca acaaacttat gccataa 337

<210> 26841  
 <211> 131  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-048-Q1-K1-A3

<400> 26841

atgaatcgca gatcgtggat taatagaaga ggtaaatttt ttttcaacta ttcacattaa 60  
ttagtgctgt actaggatcg attcaccgtc tgtccgatcg aggcattccg ccaaaaaaaaa 120  
aaactgagat a 131

<210> 26842

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-048-Q1-K1-B2

<400> 26842

acggctcatg acaatggcga atttggcatg gaactggggtt aaccttgctg aaaaaatgga 60  
actggggaaa caaaaatggt aataaatggt tctaaccaaa aaaaaaaaaa aaaaaaagaa 120  
aaagaaagaa a 131

<210> 26843

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-048-Q1-K1-G10

<400> 26843

gacctggcca tgccaggctg agctgcctgc atcctatttc atgtccaaac gcacgggtgg 60  
atcacaggct acgaggctgt taattaatct acatacgtct gccttcaatt actgaatctg 120  
cacgttgata cccatgatat gtcagactgg tcaaagtgcg ttttcacaaa cgaagtcctg 180  
atctgattta atcatagatt taatgccata ctgctgtatc tacttataca ctttgtctac 240  
cactaaccac ctttgtttgc caatgctcta ctgctctcta tactacttat atactgtaac 300  
gagaacatgc gt 312

<210> 26844

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-048-Q1-K1-G11



<400> 26844

gggcgagcga cagctggctc gggttttttt tgctactaca tacacgtagt atcctgatcc 60  
aaggctagaa ctgtagagcc atgcatgctg ccggatcgga gagccgtggg ccatggaccg 120  
atggcgctctc tctccccgcg ttgttttcgg cctctcgtat tttggctgta gttcttgctc 180  
tctcgttctc gtggaatgaa acacgtacgt atggattatc ctaccagcag atcgactaag 240  
aaaa 244

<210> 26845

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-048-Q1-K1-G5

<400> 26845

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gggcctgctg ccgcccaccg cccggaatat atctatctcc ttgtaaacct acatcagacg 120  
atgccccagc gcgtgccgct gatttgatgc aagtatgcgg ttttaatttg taaatcagag 180  
tcgaccata ctacgcgaca ccagtatca attttcactt gtaatgaaaa attacacatg 240  
tactcatttg ttgtacacaa acaaacaaaa aacgtagaa tataagagga tgtttctcaa 300  
tcgatcgtta gacagaatga atactcagat tcctcanaaa aaaaaaaaaa acagatcaa 359

<210> 26846

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-049-Q1-K1-B5

<400> 26846

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ataacacctc gagtaggagt tgaagtacat gatcattgat ggtatatata tagaggaagc 120  
atgtctatct aataagtccc tcatccaaaa ttgttcttta tgtcatgtat atgtacgtgc 180  
atatatatat atataaaaat acgtctcctt ttattaagtg tctttcgctt tcgcgcgcaa 240

ctctgtaact tgagatatgg atcaaataga ttgtcatcac tgcatatcta ctatggggct 300  
atggcttccc gttccagctc acatagaaaa gc 332

<210> 26847  
<211> 403  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3066-049-Q1-K1-B8  
  
<400> 26847

aaggagtcct gggcgctctc ccatcagttc aacctggtgc tgtacggcag gatccagggc 60  
aagggaagt gcaccgagca gaacggcatc acggcgccgg ccatgaaggt ctgccaggag 120  
gagtgcgaca aggcgtacgt ggtgaaggcg gtcgaggtca ccaacgcctg cagcgtcacc 180  
tgcgccaagg acaagaaccc gcgcctcatc gagaactgca agaggtcctg caccctact 240  
ccttcttgaa gcgaaacccc ttgaaatgaa tgaaccatgc atgcatgcat gtatgcatgc 300  
gccggtgtga cctggcgttc agctcaggcg ctgagcgagt ctatacgtac gtcgtcaccg 360  
actggccacg catgcgataa ccatctgata tggacggaac tat 403

<210> 26848  
<211> 350  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3066-049-Q1-K1-E7  
  
<400> 26848

cgacgagagg ctatccggct gctccatggc ggggcggcgg tgggaggccc gtgcccggca 60  
gtgacagtgg cctcctccgt ccgtcggccc tccccagcac cgaggacacg tcccctcaca 120  
ctcaacctgg atcgttgtac cgcaaccact ttgtgtttga gcgcctctag ctggccatgc 180  
gcggcggtatt tgagcatcgc gggctcgcgg ccagaatata accacctgtt ctgcttgctc 240  
atcgatgtgt ctaattcaaa agggaaagtc ctacaatgat tgggcatttc tttcaaaaaa 300  
gaataccacg gagaaaacgc catactgaac agacaagatc accgaagcac 350

<210> 26849  
<211> 247  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-050-Q1-K1-A7

<400> 26849

ctcagagagg gtaacatcct ctgcaataaa aatacttcac gagcttgtcc tgacaagttc 60

taactaatc cgacaggaag gtcgatttga agcatataaa atgtcaacgt aaaaaatcca 120

atcacacgta ctcacacgta aaccgaaaat gaacacctca gaacgtctct gcatcacgaa 180

tggcattgtg ttattcctcc tcatcgact atcccatcac cacaccatgc ttgtcatgat 240

ctagcta 247

<210> 26850

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-050-Q1-K1-D7

<400> 26850

tttttttttg ttgttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120

ttaaaaaaaa aaaaacattt ttttttattt aatcagaccc attttttttt ttaaaaaaaa 180

aaaaaaaaaa attttttaaa aacaaaaaaaa aaaaattttt ttttttttaa atcctaataaa 240

aaaactaaaa aaaaaaaatt ttttttattt gtacacttat ttttaaaaaa aaaaatccct 300

tgtaaaaaac cttaaaaagt tttttttaga aaagtgttta tatttccttt gat 353

<210> 26851

<211> 287

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-050-Q1-K1-G3

<400> 26851

cccacgcgtc cgcccaggcg tccgggctcc ccaaagatag catagcagca gcactcacia 60

tagcaaaaac caccatccgt cgtcgccaac cgtagcaaga acatcaccac cgcccagcaa 120

taatggcgca gagcatgagg attgtggcgc tggccctggt ggcctgctg gtgggtggcgg 180

cgggcgcgcc cgtggccacc gcgtacggct gctacgacga ctgctacgag cgctgcgcca 240  
acggcaagaa agaccccgnc tgcaccaaga tgtgcaacca ggcgtgc 287

<210> 26852  
<211> 101  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3066-051-Q1-K1-D11

<400> 26852

aaaaaaaaata aaataaaaaa aaaaaataaa aaaataataa aataaatata aaaaaggag 60  
gaaaaaatat aataaaaaa aaaaaaaaaa aaaataaat a 101

<210> 26853  
<211> 310  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3066-051-Q1-K1-E6

<400> 26853

cggacgcgtg ggcggacgcg tgggtttttt tttttttttt tttttttttt tttttttttt 60  
tatattgggt ggtgtctttt tttatgtgtc tttcttattt actctttctt gctaccaac 120  
agctgacctt tacaacacac gaaccaaata caccggcccc cgcattacaa cgactagacg 180  
cgggaaaacc gtggcgaaac ccaaattaat cgcctagcag gacataaacc tgtaaacagg 240  
tgaaagcaat accaacacga ccgaaccgat cgaccttccc aacagctgtt caacatcaat 300  
ggaaaaaggc 310

<210> 26854  
<211> 115  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3066-051-Q1-K1-G8

<400> 26854

aaaaaaaaa ccccccaat ttaaacaca ccggtgcccc cacaaaaaa aacaaaaatt 60  
aaggccaat tgttttctca aggaaagaaa aaccggtcct gcggaacttt ggggg 115

<210> 26855  
 <211> 183  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-052-Q1-K1-B3

<400> 26855

ttattttttt ttttatcttt ttttttttgg gctcgttttt ttatttttta tagcggataa 60  
 ccatctattg gcccatatat caattttcac aaaaaatatac attaccaaag cgaaacaaaa 120  
 aataaacatc taaactgaaa catgaaacac attcactgac ataaacctga ctgtaaaaaa 180  
 aca 183

<210> 26856  
 <211> 68  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-052-Q1-K1-B7

<400> 26856

tgagatttaa tatcgagttg actggtggat taaaaaagaa aaaaaataaa aaaaagaaag 60  
 ggaaaaag 68

<210> 26857  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-052-Q1-K1-C9

<400> 26857

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 gcgaacgcgc ccggcggggc gttcagcaac tgggtggcga tgaaccagca gagctacgcg 180  
 ctgtacgcgc agaagtcctg cggggacggg ggcaaggagc ccctggacaa gaagctgtcg 240  
 gaggcggaga agaagaaggt cacgtacgtg gtggacccca gcggcaaggg cgactacacc 300  
 aacatcaccg cggcgctgga ggatatcccg gtgagcaaca ccaagcgctg gatcctggac 360

ctcaagcccg gcgctcagtt ccgcgagaag ctgttcctga acatcagcaa gccgttcac 420  
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<213> Zea mays  
  
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ttggcccact cgttctccag tctgctgat gctgaacatc atgttataca tagtagtata 180  
catcccattg tgttctctct ttctccatt atgttatgtt aatcttttag tcgctgggag 240  
ttcatattgt tgtgctgaac tgatcatgca gatcaaattt tcgttgacgt tattttcttg 300  
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<211> 371  
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<213> Zea mays  
  
<223> Clone ID: LIB3066-052-Q1-K1-G1  
  
<400> 26859

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atctaaagaa agggaaaaac tatcgtactt ctgcctggcc ttgtatgctc agtcttttcg 240  
tcgaaaatcg aatcacacta gaaataccct tcaaagattt atgctaactg catccactga 300  
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tgttacactc a 371

<210> 26860  
 <211> 155  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3066-052-Q1-K1-G7  
  
 <400> 26860  
  
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<210> 26861  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3066-052-Q1-K1-H12  
  
 <400> 26861  
  
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 gattatttgc atgcacgact aatcatcact ggcaccaccg aaacatctat ctggg 115

<210> 26862  
 <211> 94  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3066-053-Q1-K1-A7  
  
 <400> 26862  
  
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 gggggactaa aaaaaataag gacaacaaca aaat 94

<210> 26863  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3066-053-Q1-K1-B4  
  
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caataatccg atccccacaga aactttttctc tcgggtccgtt cgatcgatcg ctgccgtgtc 180  
gtttgccaga caccatcagc acccaaaacc atggcctgca acctgggtca gtgcgccacc 240  
gtgcgcgcgg cgaccgtcgc gccccgcacc cctcgccctg ctgcgtccgc gtacgtctcc 300  
ttctccgcga ggaagccggc gggcggcagc ctgcagctgc agcggcaggc gtgctgcgag 360  
ccgtcgggtgg cgccgtcgcg ggcggtgttc g 391

<210> 26864  
<211> 80  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3066-053-Q1-K1-D10

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agggaaaaaa attaaaaaaa 80

<210> 26865  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3066-053-Q1-K1-G7

<400> 26865  
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acaagaccag atagcccctt gtaagccata ctcatattct gataaagatc cacattaaac 180  
tgctagtatg aagcaatgag gtgagtaact tacccttgtc ctatgcttca atctcaaagg 240  
ttctccatct ggatattgct cttgagtggc acgtactccc caaggtaccc tccaagggtgc 300  
tcatacaacg cagtccggtc aatctgctgg ttgtggaagg ccttgcaagc gtagtagaag 360  
acgtcttgca cgagcagttc cagcaaattg acacagacta gaacgcac 408

<210> 26866  
<211> 198



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3066-054-Q1-K1-A9  
  
 <400> 26866  
  
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 tggcctaaac gacctgatca taacatttaa ttaattaatt aagccaaaga cctacaagcc 180  
 ctaggatcga tgcctccc 198

<210> 26867  
 <211> 208  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3066-054-Q1-K1-B10  
  
 <400> 26867  
  
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 aatcggcggg gtgctttgtg taatcctacg gccattttg agccattgat ctaatgaaat 120  
 cagggtggtg caaaaaacaa aaaaaagata ataaaaacaa aaaaaaaaac aagataatat 180  
 aataaaaaat aaaagaaaaa aaagaaaa 208

<210> 26868  
 <211> 145  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3066-054-Q1-K1-D3  
  
 <400> 26868  
  
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 atctatagtg taccctaaat caaat 145

<210> 26869  
 <211> 121  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-054-Q1-K1-E6

<400> 26869

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gaaagtaaaa attaaaaaaaa aataaaaaaaaa aatattttaa aaataaaaaa aaaaaaata 120  
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<210> 26870

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-054-Q1-K1-F11

<400> 26870

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gggaggcatc ccaaattcaa aaggaggatca tctggtaact gatgttaca cttttctgta 120  
tgggaatgct gtgaacaatg tggcgcagag ttccacacac taactaacct tacattatgc 180  
tagacagaga tcctacttcc tttgcttcag ttctcgaat ctatgcagat gcagacactc 240  
gcagagagag ctcatcaact gg 262

<210> 26871

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-054-Q1-K1-H7

<400> 26871

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tgatgctaaa gttgcctagg aatttggtac ggtgaagtgg cagtggacgt gaacaatggt 180  
aagttttgag catttaaatt aaacctttgc cctgataacg ttgcgagtta tttaattttct 240  
tgctttgttc ggggcttgtc agtctgttaa actgtttatt ttatttggca tagcctgaaa 300  
gagtgaaatc aacagttgtc gtaattgtaa ctgggtttttc ttcttgccat gtcataataat 360  
acagtatggt tcaataaaat ctcttagg 388

<210> 26872  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3066-055-Q1-K1-B5  
  
 <400> 26872

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 cgcctcaaca ataggcaggc aatcatgtat ggtactacga caccaagacg acatactcca 180  
 gctaaggtac ttgactcggc gaaaccaact gaaacagcgg caccacggcg cctgtcgccc 240  
 tactattgca gctatcctac aacatgtctg atatacgcaa aagactcggg ttttttctcc 300  
 ccaccagca tccttcaatt ggtcatgctc aagctcaatt agcttcagcg tccttctctc 360  
 gacctgacct gatctatgcc gatttctg 388

<210> 26873  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3066-055-Q1-K1-G11  
  
 <400> 26873

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 cggagctgga tccgtctctg cacaggttga ggacatcaca gacactcaca acagacatgt 120  
 agtgaactca tatttgcatt agtgtacatg cctcagagtg cagcacaccg gctaaccttg 180  
 cccacatgca ttggccttga ttataacaca cgatagcgtg gatgtggaat tggacgatcc 240  
 tgtgcatgaa tactactcag tgcaaaggat caaaagtgca tacaagagaa tgactgaacc 300  
 acttccagat aggtctcaat ggccattagt ggacccgccc tatgtggttg gtgcaccact 360  
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<210> 26874  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3066-056-Q1-K1-C12

<400> 26874

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ggttgacagg aaattttatt ccaaaatggg tgaatcgact tgctagaatg ggtgctgttt 180  
gcaactgcat tctaccagag tccctcaaga tcaacgcggc cggtcatgac ccagcttctc 240  
gagctgaaga tagcgagaga aaaatgctga caagtctctt cagttgcttc tgttcaatct 300  
ctctatgcca aagacatttc tcaacatctt cgccgtctct gcgttctctc gcgaacggca 360  
cttcttgga taccaagcaa tccaattcta cccgactgaa gaagagctta cagttgaggt 420  
cctgtgtatc atatttaact catg 444

<210> 26875

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-056-Q1-K1-D11

<400> 26875

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accaggacca gcgagttcaa cagcagacag atcgggacta ttatgacgag ccgcaggatg 180  
gcatcatcgg ccgcactgtc ggtgctagcc ctagcgctag tggcggccac cgcacacac 240  
gtagcggcgg caacgacgac gagagcggcg gagagcggcg aggcggccta tgccaagacg 300  
atccaggacg acttctgctc aacgctgtgc gacggcaaga tggggaccga cctggtcgcg 360  
tgctaggagt cctgcgctct ctgccagcag tccaacctgg tgctgtacgg caggatccag 420  
tgcaagggca agtgcaccga gca 443

<210> 26876

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-056-Q1-K1-E11

<400> 26876

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ctcaaagtgg tgtaaattga tggatcaagg tataggatcc cctggagtgt ccaaccggca 180  
atccaaacca attccttttt tcgaattatc atgatgtaat tcccaaatgt ataaaattca 240  
gttttttagtt tttccttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata aaaaataaaa 300  
aataaaaaaa aagaaaaaaa aaataaaaaa gcttaataaa tatataaata taaaaaataa 360

<210> 26877

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D9

<400> 26877

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gctatagtcg acatcaagat cctgaaccat ctgatcaata accagaatga atactgcatg 180  
gaggttactc caaaaacatt ggctgatgtt aaaggcggta ctctcatctc ttacgaagga 240  
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atcgagaagt ttaagatatt caacactaac aacttggtgg tgaaccttaa agctgtcaag 360  
agactagtag aggctgaggc acttaagatg gaaattatct caaaccccaa ggaagttgat 420  
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<210> 26878

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-D12

<400> 26878

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aacccttcaa ttgagcttgg acctgagttc aagaagggtg ccaatttcct tggctcggttc 180  
aagtccatcc ccagcatagt tgagcttgac agcttgaagg tttctggtga tgtctggttt 240  
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gagattccag atggagacgt acttgagaac aaggatgtca atggccctga ggatctttaa 360  
gcaatgttta tcatcaccag ttttcccaag gacatgtcac aggaactgcc aagcctaate 420  
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<210> 26879

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G12

<400> 26879

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gaggctgagg cacttaagat ggaaattatt ccaaacccca aggaagttga tgggtgtgaaa 180  
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attaatgttc cccgctcaag atttctcccg gtgaaggcta catctgattt attgcttgtg 300  
cagtctgac tttacacctt ggttgatggc tttgtcatcc gcaatccatc cagagcgaat 360  
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<210> 26880

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A12

<400> 26880

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gagaaggccg ggttcatcag cctcgtgtca cgctacctca gtggggaggc ggagcagatc 180

gagtggagca agatccagac cccgaccgat gaggtagtgg tgccgtacga taccctcacg 240  
 tcgcctcctg aagatctcga ggagacgaag aagctgctgg acaagctcgt tgtgctcaag 300  
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<210> 26881

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-030-Q1-K1-F4

<400> 26881

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 ttgacagctt gaaggtttct ggtgatgtct ggtttggctc tggaattaca ctcaagggca 240  
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 agaacaagga tgtcaatggc cctgaggatc ttttaagcaat gtgtatcatc accagttgtc 360  
 ccaaggacat gtcacatgaa ctgtcaagcc taatcactcc tactgagctc tatantttgt 420  
 aatgttcatg tgcattccg 439

<210> 26882

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D2

<400> 26882

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 agtccttcaa ctcgaaaccg cagctgggtc agctattcgg ttcttcgaca aagcgattgg 180  
 aattaatgtt ccccgctcaa ggtttctccc aatgaaggct acatctgac tgatgcttgt 240  
 gcagtctgat ctttaca 257

<210> 26883  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G4

<400> 26883

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accagttttc ccaaggacat gtcacaggaa ctgccaagcc taatcactcc tactgagctc 180
tatattttgt aattttcatg tgcattccga ttccgctgtg agggtcattg gagcccgcta 240
gagaataatt gtaatcttct ttgctgcgtc tgtacttctg tttttgtgcg ccaggacgta 300
tatttttact gaaatgatac tccgtaatat attataatac ttgttttata ttatttttat 360
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<210> 26884  
 <211> 451  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F5

<400> 26884

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gacagtcgaa caacgcctac attttcctg gatattggcct cggctctgtt atctctggag 180
ccatccgtgt ccacgaggac atgcttcttg ccgcctcgga agcactagct gctcaggcca 240
cacaggagaa cttcgacaag ggatcaatct tcccgcctt caccaacatt agaaagatct 300
ctgcgcgcat tgccgcagcc gtggctgcaa aagcttatga actcggtttg gcgacccgtc 360
tgctccccc aaggacctg gtgaaatatg cacagagctg catgtacact cctgtctacc 420
gtaactaccg gtagtgctgc tgggatcaat t 451
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<210> 26885  
 <211> 139



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-H12  
  
 <400> 26885  
  
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 gcatggtgga gctcttgtcc cgtattacct taatgaaaaa actgggtggg gtttggagat 120  
 ctctgatttt aatacgcat 139

<210> 26886  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-B11  
  
 <400> 26886  
  
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 acaaccaata tgatatagtg aaattctgta aaaatgaggg ccttgttctt ctagctgatg 180  
 aggtatatca agagaacatc tatgttgaca acaagaaatt taactctttc aagaagattg 240  
 caagatccat gggatacggc gaggatgatc tccctctagt atcatttcag tctgtctcca 300  
 aaggatacta tggagagtgt ggtaaaagag gaggttacat ggagattact ggcttcagtg 360  
 ctccggttaag agagcagatc tacaaggtag cttcagtgaa cctgtgctcc aatatcactg 420  
 gtcaaatacct tg 432

<210> 26887  
 <211> 221  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-048-Q1-K1-F3  
  
 <400> 26887  
  
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 caagcagcaa attagccgct ggcacagcat gcggttaataa tcttgtcaca gtgctgtagt 180

tgggagcgtt tttcttggtta gaagtgtttc tggtttggtt g 221

<210> 26888

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B8

<400> 26888

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atccagaatt gaagagtttg tggttaaaag aagtcaaggg tatggctgat cgtatcattg 180  
gaatgcggaa ggcacttaag gaaaatcttg aaaagctagg ttcacctttg tcatgggatc 240  
atatcactaa tcagattgga atgttctgct acagtgggat gacacctgaa caagttgacc 300  
gtttaacaaa tgaataccac atttacctga cccgcaatgg gtggataagc atggctgggtg 360  
ttacgacagg aaatgttggg tacctagcaa attcttttca tgaggttacc aaactcaatt 420  
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<210> 26889

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F10

<400> 26889

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cgtgctttga tggatgagat ggctatcgtc gccacaaagg aataccgggc aatcgtattt 180  
gaggaaccgc gctttgttga atatttccgc cttgcaacgc cagagatgga gtatggcagg 240  
atgaacatcg gaagcaggcc atcgaaaaga aagccgagtg cgggcatcga gtcgctgcgc 300  
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ttcggcgcgg cgttcaagca tgtcttggac aag 393

<210> 26890  
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 gaagggcatc gtcgtcggca tgcagaacac cggctaggcc aagaattatt gtgtgcagat 180  
 aacctgtctt ccatgagacg gttgacgata tgtgtaggcc tgtgagcagt tagtacaccg 240  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-017-Q1-K1-H10  
  
 <400> 26891  
  
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 catgttgctg gtcacaagga cgtccttgaa ggtgacacct atctgaagca gcgtctgcgg 120  
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 cgcgacccga gctttcaggt gagcccgag cctgccctgt ccaaggagtt caccgacgag 240  
 agtcagccgg cggagctggt gcaactgaac cagcagagcg agtacgcttc aggcctggag 300  
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 <211> 267  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-C3  
  
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ccgccaccgc cctcaccat gggcagcgcc gccgcctctc cgcagccgtc tgggaatctg 120  
acgcaggacg agctcaagcg cgtggcgccg caccgcgcgg tggagtctgt ggagcccggc 180  
atgacgctgg gcctgggcac gggttccacg gccgcgcacg cgctggaccg tctgggctac 240  
ctactccgcg tgggctcgct gtccggg 267

<210> 26893  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A4

<400> 26893

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gcaaatgcca ttgtcgcagg ttctgcagtt tttggggctc cagactacgc tgaagctatc 180  
aaaggaataa agaccagcca aagacctcta gctgtagccg cataaggagc tggacgtgta 240  
atcatttact ctgtgcaagt ttaccagtga tgcgatctgt atagatgtgt gtcttgtcca 300  
gccatacgta taccggagat gaaaagagac ggaagcagtg aagaaatatc cttttttttt 360  
cttctcattt ttcacgaaga 380

<210> 26894  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G5

<400> 26894

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tgctgctacc tgctctagcg cgagcgagag aggtacggcg gccgatctgg cggcgcaggc 120  
ggaggggctcg gccggggccg gcaagtcggc gccgaacatg gggaggggccc gggtcgagct 180  
caagcggatc gagaacaaga tcaaccgcca ggtcaccttc gccaaagcgc gcaacggcct 240  
gctcaagaag gggttccagc tctcggtgct ctgcgacgcc gaagtcgcgc tcatcatctt 300  
ctccaaccgc ggcaagctct acgagttctc cagcacgcag agcatgccaa aaacacttga 360

aaagtaccaa aaatgcagtt ttgcagggcc tgaaacagca ctccagaata gagagaatga 420  
gcaactgaaa agtagccgca atgagtacct caaactgaa 459

<210> 26895  
<211> 276  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E5

<400> 26895

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aacggcttca aagcaccttg aaaagaatag gagtgaacag cattcctggt attgaagagg 180  
tcaacatctt taaggatgat gttgttattc agtttgtaaa tcctaaagtg caagcgtcaa 240  
ttggtgctaa tacatgggtg ggcagtggaa ctccac 276

<210> 26896  
<211> 379  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D2

<400> 26896

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gtcatctcca aggtccgca ggatttcac acctacggag tcggtgacgc cgtcctaaac 180  
gagctccagg ctctagtggg agatgaaaat gctacactgc tgctcgatct ctgagaacat 240  
agaccgaacc aaggttgctg acgcgtacgt cggaggcacc accggcacga caacggccgt 300  
gcacgacctg aacgtgccgt acgaggccac atcttaggag tacgccaacc cgaccgtga 360  
catgctgttt ccggcgaca 379

<210> 26897  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-D6

<400> 26897

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gtgaacaaca agcagcactt ggctttcttg ctgaaccacc aaaagaacaa cctggagagg 180  
ctgtattgcc tgcttcagca gtggaatcca attctgatgg gttgcaaagt gtgccccatg 240  
gctcagttgg agctgttgca ggctgcgtcg ctatagctca gggaaaccct gatgaagttg 300  
ctgcagcatt gtgtagatat tcagcaccag aagaggttga tactttacca tcaacatgtg 360  
gagcctgtgg aacaaaatgc gtcacacgtt tctttgctac aaaaatccca t 411

<210> 26898

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G7

<400> 26898

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tcaaacgcac tctcctccgc cgtcgcccga ggcaagatgg ttctccagaa cgacatcgac 120  
cttctcaacc cgccggcaga gctcgagaag ctcaagcaca agaagaagcg cctcgtccag 180  
tcccccaact ccttcttcat ggatgtcaag tgccagggat gcttcagcat aaccacggtt 240  
ttcagccact ccagactgt tgttggtgct ccaggctgcc aaactgttct ctgccagccc 300  
acgggaggaa aggcgaggct cacggaggga tgctctttcc gccggaaggg agactagagc 360  
tgagtctgtt attagtactg gatcggttgt caatctccag tatgtggtct tcaagttttg 420  
ctctgtgccc cagacgttag ggtcatg 447

<210> 26899

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H1

<400> 26899

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 gccagggctg tttcagcata accactgtgt tcagccactc ccagactgtg gttgtgtgcc 180  
 caggctgcca aactgttctg tgccaaccta cgggtgggaa ggccagggct caccgagggg 240  
 tgctccttcc gtcgcaaggc cgattaggtc ctgcttctct taacgtgaga agagataaat 300  
 ttgggtgttt gcaactttct caggatatgt actcggtgag gattttgtta attattatgg 360  
 ctgttagcgt ggcttgacia tgcttgtgta aacctgcact ttgtttgagc gtagtgacag 420  
 ctaatatggt gcttgttggc ttttgctg 448

<210> 26900  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-040-Q1-K1-E8  
  
 <400> 26900

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 gtaccattgc ccatgcgctt gagaaaacta agtaccctaa ctccgacctc tactggaaga 120  
 agtttgagga tcactaccac ttctcgtgcc agttcaccac tgacttgatt gcaatgaacc 180  
 atgccgactt catcatcacc agtaccttcc aagagatcgc cggaaacaag gacaccgtcg 240  
 gccagtacga gtcacacatg gcgttcacia tgcttggcct gtaccgcgtt gtccacggca 300  
 ttgatgtgtt cgacccaag ttcaacatcg tgtctcctgg cgcgacactg tccatctact 360  
 tcccgtaac cgagtcgcac aagaggcttg acctcctttc acccgagaat gangagctcc 420  
 tgtacagcca aaccgag 437

<210> 26901  
 <211> 298  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-045-Q1-K1-E9  
  
 <400> 26901

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 tgatccgggt gtcgctttta gtagtctgat ggactgtag tagtttgctg tgcgtcgggt 180  
 gagaggggaac ggtgggtgtg gtggtgtgtg tgcagtcggg tgtgggtgctc cctttgtttc 240  
 ctggatggga tgttgctcct tgaataataa tcgtagtggc cttggagccc ttttcctg 298

<210> 26902  
 <211> 318  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-017-Q1-K1-C3  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa ggaatcaaat caaaaatatc aaaacttaaa aaaattaata 240  
 agaaataaaa aaaatatact aatgattaac caaaataaaa acaaatatca atttattaaa 300  
 aactcaaaca aggaaaaa 318

<210> 26903  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-H10  
 <400> 26903

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 cggaggcgga gctggacctg ggctgggtgc ggcgcgccag ggtgttccac tacggctcca 180  
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 ccgggggcgt gctctgctcc tacgacccca acgtgcgcct cccgctctgg ccgtcgcgcc 300  
 acgccgcacg cgagggcatc ctcagcatct ggaaggaggc cgacttcac aaggtcagcg 360



acgacgaggt ggccttctc acgcgcggtg acgccaacga cgagaagaac gtgctgtccc 420  
tgtggtttga cgggctcaa 439

<210> 26904  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C9

<400> 26904

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ggcgtgctct gtcctacga cccaacgtg cgcctccgc tctggccgtc gcccgacgcc 120  
gcacgcgagg gcctcctcag catctggaag gaggccgact tcatcaaggt cagcgacgac 180  
gaggtggcct tctcacgcg cggggactcc aacgacgaga agaacgtgct gtcctgtgg 240  
tttgacgggc tcaagctgct cgtcgtcacc gacggggaca agggatgcag gtacttcacc 300  
aaggacttca agggcagcgt gcccggttc aaggtcgaca ccgtcgacac caccggcgcc 360  
ggcgacgcct tcgtc 375

<210> 26905  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A8

<400> 26905

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gcaggetcag gatctcatcg acgccgctag gtacgacgac ttggaggacg tagtcgccct 180  
gttctccgct ggtgtctcgc tggactccac agattcgcaa ggccgcacag ctcttcacat 240  
ggcttctgcc aatggtcacc ttgctgaggt ggaatacttg attcaaatg gagcgaatgt 300  
taatgccacc aacatggaga agaacacacc actccactgg gcatgcctta atggacgtat 360  
agaggtaatc agggctttga tctcagcggg ggctagcgag agtgctct 408

<210> 26906

<211> 411  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 26906

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gacctcatcg ccaaggccaa ctagatggcc gcacgcccgc cgttcacca cgtcactgtc 180
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ctctgcgcct ctacgctgag acggtttggt tgggttaatt aagttagctt tcgtggagat 300
ttcgccccgg ggcacaaat aaaatgttgg catgcgtggt gggatgctat cctttatatt 360
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<210> 26907  
 <211> 347  
 <212> DNA  
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<223> Clone ID: LIB3067-039-Q1-K1-B10

<400> 26907

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agcagacctt catcatgatc aagcccacg gcgtccagcg gcgcctgatc ggggacatca 180
tcagtcgctt cgagaagaaa gggttctacc tcaaggggat gaagttcatg aacgtggaaa 240
ggtccttcgc tcatcagcac tacgctgacc ttccgacaa gcctttcttc cccgggttgg 300
tggagtacat catttccggc cccgtggtgg cgattgtgtg ggaaggg 347
  
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<210> 26908  
 <211> 464  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C3

<400> 26908

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 accttcatca tgatcaagcc cgacggcgtc cagcggggcc tgatcgggga catcatcagt 180  
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 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-032-Q1-K1-C5  
  
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 cctggagaag cagctcgatt cgtccttgaa gcacataaga tctacaagga cacaacacat 240  
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 tcttcgaaga a 311

<210> 26910  
 <211> 348  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-G12  
  
 <400> 26910

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 tcggcgtctt ctccagcgcc ggcaagcttt acgactactg ctccccgaag acatcgctat 120  
 caaaaatcct agagaagtac cagaccaact ctggaaagat actgtggggg gagaagcaca 180

agagccttag tgcagagatt gaccgtataa agaaagagaa cgacaccatg cagatcgagc 240  
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 atgaggcact tgataatgga ctgacgaacc tgaatgagaa actgatgg 348

<210> 26911  
 <211> 88  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F7

<400> 26911

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 tacccttgaa tctagcggcg cttttggt 88

<210> 26912  
 <211> 100  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C4

<400> 26912

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<210> 26913  
 <211> 396  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E10

<400> 26913

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 cagcacatca ggacattgag caagtaaaag ctgatgctga gggcctggca aagaaactgg 180  
 aagcacttga agcttacaaa agaaaacttt tgggtgagag gttggaagaa tgctcctttg 240  
 aagaactgca cagtttgga gtgaaactcg aaaagagcct tcattgcac aggggaagaa 300

agactcagct gctggaggag caactccata agctgaagga gaaggagatg aatctgcgca 360  
agagcaacga agatttacgt gaaaagtgca tgaagc 396

<210> 26914  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-A5

<400> 26914

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ctgctcaaga aggcgtacga gctctccgtg ctctgcgacg ccgaagtcgc gctcatcgtc 180  
ttctccaacc gcggcaagct atacgagttc tgtagcggac cgagcatcac gagaacactt 240  
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gagttagtcc agaacagccg caatgagtac cttaaactga aagcaaagggt ggataattta 360  
cagaggactc aaaggaattt gcttggtgaa aatctggggt cacttgggggt caaagagctt 420  
g 421

<210> 26915  
<211> 456  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C1

<400> 26915

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aaaacacttg agaggtatga aaaaaacagt tatggaggac cagatactgc tgtacagaac 300  
aaggagaacg agttagtcca gagcagtcgt aatgagtacc tcaagctgaa agcgaagggtg 360  
gataatttac agaggactca gaggaatttg cttggtgaag atctgggggtc acttgggtgtc 420

aaagagcttg agcagcttga gaagcaactt gattca 456

<210> 26916  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D1

<400> 26916

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cgcaacggcc tgctcaagaa ggcgtacgag ctctccgtgc tctgcgacgc cgaagtcgcg 180  
ctcatcatct tctccaaccg cggcaagctc tacgagttct gcagcggaca gagcatcacc 240  
aaaacacttg agaggtatga aaaaaacagt tatggaggac cagatactgc tgtacagaac 300  
aaggagaacg agttagtcca gagcagtcgt aatgagtacc tcaagctgaa agcgaagggtg 360  
gataatttac agaggactca gaggaatttg cttggtgaag atctggggtc acttgggtgc 420  
aaagagcttg agcagcttga gaagcaac 448

<210> 26917  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C2

<400> 26917

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gtgtggtagt acgtctgcct gcagctgggg ttagctgcaa gggttgggag ccatggggag 180  
gggtcgggtg gagctcaagc ggatcgagaa caagatcaac cgccagggtca ccttcgccaa 240  
gcgccgcaac ggctgtctca agaaggcgta cgagctctcc gtgctctgcg acgccgaagt 300  
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<210> 26918  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H5

<400> 26918

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 agaaagacca gcggcagcaa gtgcaacggg accaaactca acagcagacc agttcgtctt 180  
 ccacgtcctt catgttaagg gaagctgccc caacaacaaa tgtcagcatc ttccctgtgg 240  
 cagcaggcgg gaggggtggtg gaaggggcag cagcgcagcc gcaggctcgc gttggactgc 300  
 caccatggat gcttagccat ctgagctgct gaaagtttgc cctcaccgtc gcgatgtgat 360  
 agcccaaaat ccagcaagtc ttccccggac cccggactgt ccccgcttct ccgtctgggt 420  
 cagtatcgtc gtgatcgca gaagcagcag cagcgggt 457

<210> 26919  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E9

<400> 26919

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 tggcagcatg cgtgggagca aagcagcgg cattctgaag tgcagccgca gcagctcaat 180  
 ggcaataact tcttccatcc cctcgatggg gctgggtgaac ccacccttca gataggggtat 240  
 ccttcagagg cactgactag ctcatgcatg accaccttcc tgcccccggtg gttgccatga 300  
 gatcgaacta ctgcgcaatt ccgaattaat aagcatggcc gcatgcagct gcctgtgcta 360  
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 tgatg 425

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 <211> 329

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-002-Q1-K1-B10  
  
 <400> 26920  
  
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 atatgttatg taagcacaaa tgaaacatgc cggactagtt gcttttgctt gtctatgtat 180  
 ttgtttattc cctttgcctc aaagatccat cttcagggtg gccatgccgg catgaagtta 240  
 ttcatatgct cgggagcgaa cccgatctgc agggttggct ctgctgcagc ttccagggga 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-049-Q1-K1-D7  
  
 <400> 26921  
  
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 ccactcacat atatgaccta gttttgtgtg tctatatgtc gaaaccata tgtctgtgat 180  
 tttattatat gttatgtaag cacaaatgaa acatgccgga ctagttgctt ttgcttgtct 240  
 atgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300  
 aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaata atataaaaaa aaaaaaaaaa 360  
 ataaaaaaaa taaaaaaaaa gggcgccctt tttaaggagc caaatTTTtac gtacccttac 420  
 ttgcaacgca atagttttt 439

<210> 26922  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-059-Q1-K1-C4  
  
 <400> 26922



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 tctgcaagcg ccgcaatggg ctctcaaga aggcgtacga gctctccgtc ctctgcgacg 180  
 ctgagggtggc cctcatcgtc ttctctagcc gtggtcgcct ctacgagtat gccacaaca 240  
 gtgtcaaggc tactgttgag aggtacaaga aggcacacac cgttggtctt tcctctgggc 300  
 ccccgctcct agagcacaat gccagcaat tctaccagca agaatacagca aaactgcgca 360  
 accagatcca gatgctgcaa aacactaaca ggcacttggt tgggtgactcc gtgggaaacc 420  
 tgtcac 426

<210> 26923  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-058-Q1-K1-F6  
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 ggctcctcaa gaaggcgtag gagctctccg tcctctgcga cgctgaggtg gccctcatcg 180  
 tcttctctag ccgtggtcgc ctctacgagt atgccaacaa cagtgtcaag gctactgttg 240  
 agaggtacaa gaaggcacac accgttggtt ctctctctgg gccccgctc ctagagcaca 300  
 atgcccagca attctaccag caagaatcag caaaactgcg caaccagatc cagatgctgc 360  
 aaaacactaa caggcacttg gttggtgact ccgtgggaaa cctgtcactc aaggagctga 420  
 aacagc 426

<210> 26924  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-032-Q1-K1-B1  
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attaactacc aggattatct caagttgagg acaagggtcg aattcctcca aactacacaa 120  
 agaaatattc ttggcgagga tctgggtccg cttagcatga aggagctaga gcagctggag 180  
 gaccaaatag agatatctct gaagcatatc agctcaagaa agaatacaat gctacttgac 240  
 cagctatttg atctcaaaag caaggaacaa gaattgctgg atctcaataa agacctaagg 300  
 aagcagctgc aagaaa 316

<210> 26925  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A11

<400> 26925

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 tctatgtact gacctgaact ttgtgtattc cttttttcca agcaggatct cacgttgact 180  
 tactctgttt cgttgcgctc tttcttttca aaactagatt aactaccagg attatctcaa 240  
 gttgaggaca agggtcgaat tcctccaaac tacacaaaga aatattcttg gcgaggatct 300  
 ggggccgctt agcatgaagg agctagagca gctggaggac caaatagaga tatctctgaa 360  
 gcatatcagc tcaagaaaga atcaaatgct acttgaccag ctatttgatc tcaaaagcaa 420  
 ggaacaagaa 430

<210> 26926  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A5

<400> 26926

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 ttgatttcct aactgaagtt gtcagcaagg tacctgatct tgggtggcgt gattcctgtg 180  
 gagatgaaag aggattacct agaagaagaa agtcaaattg ctgtgaccca gagaatgatg 240

aatcaagatc tagtaaaatg gccataagaa atgcatacat cagccccaga ggacgtggga 300  
 ggggtcgagg cataggacga ggtctgccac caaccaagag aaaggagggtt ggttatgtac 360  
 aatttgaaga tgagagcagc atgtttgctg aacatgggtga gcccttgcca ggagaggata 420  
 cagttcaaga gatcaatggc 440

<210> 26927  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-B9

<400> 26927

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 cagcataacc acggttttca gccactccca gactgttggt gtgtgcccag gctgccaaac 180  
 tgttctctgc cagcccacgg gaggaaggc gaggtcacg gagggatgct ctttcgccg 240  
 gaagggagac tagagctgag tctgttatta gtactggatc ggttgtcaat ctccagtatg 300  
 tgggtcttcaa gttttgctct gtgccccaga cgtaggggtc atgaacttcc ttagctaagg 360  
 ctttcgcgat gttgttctgt gctgctatgt atcgacggtt ggttcttgct gaacttatag 420  
 cttgtttggt tcgg 434

<210> 26928  
 <211> 239  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E3

<400> 26928

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 ttctaccagc gagcgccgct tatgaagcca tacagcactc tatggacctg tatgctacat 180  
 acatcgcttg agggcctgaa gaggtaggat tctgatggct aggaaaggct gcgaggatg 239

<210> 26929  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D11

<400> 26929

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 gctagagcaa ttggccttat gcccatgatt gaccaggggtg aaaaggatga caagataata 120  
 gcagtatgtg ctgacgatcc tgaataaccgt cactacaacg acatcagcga gctgtctcct 180  
 caccgcctgc aagagatcaa gcgcttcttt gaagattaca agaaaaacga gaacaaagaa 240  
 gtcgcagttg atgcattctt gcccgcgaca acagctcaag aagccattca gtactccatg 300  
 gacctgtatg cccagtatat ttgcaaagc ttgaggcagt agattgcaag caacaattta 360  
 tctatcatgc gtcttggatc ggggcgtgat ttaataaagc cgaatcgctt 410

<210> 26930  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G4

<400> 26930

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 ggataagact gctgcttctg ctgagcagcc gaagagggcc cctaagctca atgaaaggat 180  
 cctctcttct ctgtccagga ggtccgtagc tgctcatcca tggcatgata ttgagatcgg 240  
 tcctgatgct cctgctgttt tcaatgttgg tgttgagata acacagggat gcaaagctta 300  
 atatgaactt gacaagaaaa ccggactgat taagggtgat cgagtcctgg acttatcagt 360  
 tgtataccct tac 373

<210> 26931  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C6

<400> 26931

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catgagcctg ttgttcctgg ttcgttcctg agagctagag caattggcct tatgcccatt 120

attgaccagg gtgaaaagga tgacaagata atagcagtat gtgctgacta tcttgaatac 180

cgtcactaca acgacatcag cgagctgtct cctcaccgcc tgcaagagat caagcgcttc 240

tttgaagatt acaagaaaaa cgagaacaaa gaagtcgcag ttgatgcatt cttgcccgcg 300

acaacagctc aagaagccat tcagtactcc atggacctgt atgcccagta tattttgcaa 360

agcttgaagc agtagattgc aagcaacaat ttatctatca tgcgtcttgg atcggggcgt 420

gatttttaa 428

<210> 26932

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H2

<400> 26932

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gctgaagatg ttacgctgaa gacgaacata cttttttttt gctcaactgt gctatgtaag 120

ctagtagctt ttgcgagga gcagagactg ttttgccctgc cccaacttt tagcttgagc 180

ttgctaataa tgtttacctc tggacgtatc aataatgggtg cttatgtacc ctttttttgt 240

gccgaattac ggtggatccg tcacttgaac catgggtttg gtgtatgtaa ttgcgtcacc 300

cgatgcctaa ggtgagactg aagtttttgg acatttgga caaggtagcc ttgtgcccc 360

cattggtcga atgctgccaa aactgtaccg gtcactctgtg ctccgtacgg attagcctga 420

tctgcgaatg caacttgtca gc 442

<210> 26933

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G8

<400> 26933

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tcgacatcat caacgcggcc accgtgaagt ccgcttaaga tgttacgctg aagacgaaca 180  
tacttttttt ttgctcaact gtgctatgta agctagtagc ttttgccgag gagcagagac 240  
tgttttgcct gcccccaact tttagcttga gcttgctaata aatgtttacc tctggacgta 300  
tcaataatgg tgcttatgta cccctttttt gtgccgaatt acggtggatc cgtcatctga 360  
accatggggtt tgggtgatgt aattgcgtca cccgatgcct atggtgagac tgaagttttt 420  
ggacatttgg gac 433

<210> 26934  
<211> 427  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-059-Q1-K1-D10  
<400> 26934

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acaggttccc ccttcagatg ttgtggaggt cgttgtcagc cctccttatg tcttccttcc 180  
tgtggtcaag agccagctgc gccaagagtt ccatgttgcg gctcagaact gctgggttaa 240  
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ctgggtcatt cttggacact ctgaaaggag agctctgctg ggagaatcaa atgaatttgt 360  
tggagacaag gttgcgtatg ccctgtctca gggactaaag gtcattgcat gtgttggtga 420  
gacattt 427

<210> 26935  
<211> 457  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-027-Q1-K1-B10  
<400> 26935

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gggcagaggg aggctgggtc taccatggag gttgttgctg cacaacaaaa agcaattgct 120  
 gagaagatca aggactggag caacgtagtt gttgcctatg aaccagtttg ggctattgga 180  
 actggtaaag ttgccacccc agctcaggct caggaagtgc acgccttcct gagggattgg 240  
 ctaaagacca acgtcagccc tgaggttgct gaatctacta ggatcattta cggaggctct 300  
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 gcttaagatg ttacgctgaa gacgaacata ctttttt 457

<210> 26936  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-034-Q1-K1-B7  
 <400> 26936

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 tggaactggt aaagttgcca cccagctca ggctcaggaa gtgcacgcct ccctgagggg 180  
 ttggctaaag accaactgca gccctgaggt tgctgaatct actaggatca tttacggagg 240  
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 tgtcggtgga gcttctttga agcctgagtt catcgacatc atcaacgcgg ccaccgtgaa 360  
 gtccgcttaa gatgttacgc tgaagacgaa catactnttt tttt 404

<210> 26937  
 <211> 314  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-032-Q1-K1-E5  
 <400> 26937

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gagttccatg ttgctggctca gaactgctgg gttaagaagg gaggtgcttt caccggtgaa 180  
 gtcagtgtg agatgctcgt caaccttggt gtccctggg tcattcttgg acactctgaa 240  
 aggagagctc tgctgggaga atcaaatgaa tttgttgag acaaggttgc gtatgcctg 300  
 tctcagggac taaa 314

<210> 26938  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E5

<400> 26938

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 gccgtcatcc ctgcgctcct cccacctctc cccaatcgcg gcggtgtcca ctcccgccgt 180  
 cccacatcag cttcgcacgc gctgctcccg ccgacgcgcc gggcgcatcg ttgccatggc 240  
 tggatccggc aagttcttcg tcggaggcaa ctggaagtgc aatggaacaa aggactccat 300  
 tagcaaaactt gtctctgaat tgaatgctgc tacccttgaa actgatgtag atgttgtgg 360  
 ggcaccctca tttatctata ttgatcaggt taaagaattc ac 402

<210> 26939  
 <211> 224  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-E7

<400> 26939

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 atcaactttg gagttccatc ggcaataagc ttgaaacacc aaccaagaca ataacttcag 180  
 ttattccgca gcgtgatggg attcaagata actacaatga tcaa 224

<210> 26940  
 <211> 224  
 <212> DNA



<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-043-Q1-K1-E8

<400> 26940

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ctttctagct gagaactgag ctgtagctga aggttcagtc attcttcacg ctcgagctac 180

tacatcttct tgctgctgag tgccgggagc tgagatcgat cgag 224

<210> 26941

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F1

<400> 26941

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agtgtctggt tcagtgcagt ttcctttact ttcaaaaagt gcctttcttg aacgggtcaat 120

tgaagaaaat tctgaccaag aataatgcat catcaaacta aatgacattc ctgggggtgcc 180

aagtcatttg agctagttgc aagggttctgc tatgggtgtg aaaatagagc atcaaaagct 240

act 243

<210> 26942

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F10

<400> 26942

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ccgaggccca cctgaagctt tcagaattgg gatttgctga ggcgtaaagt gagagagAAC 180

gaaccagaag agtgtggtgg ttgtcgtcgg ccggcaggcc ttgtgttttt gttgtctgct 240

ttttctttga atgaagatgt gatgaactct gctgaagatg tattgtgttt gttgtcatgg 300

ttcatttttc tattttattt atctataata tctgtcggag aagctttgat atgaatcggg 360  
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<210> 26943  
<211> 387  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-043-Q1-K1-F11

<400> 26943

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agggttttctt tgagccttct gaggtgacct atcagacctt caacgactgn tatgtctccg 180  
gttgcgatcc agttcttgca tgcacatttt ttccacaccg gggaatactt gttcaccgtg 240  
agaaactacc tacacgaaca aaattgtagc gtctagtctg tgacttatgt tccatatact 300  
aactggaatt aagttggttt aagttaacag tattttagt tccggttatg ttatcttatg 360  
tttgttgcaa aattttatga tctttat 387

<210> 26944  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F12

<400> 26944

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tagaccactt gaccatctcg cggttttgta tgatttccat gtctatactg attctaagac 180  
tttgtttaac atgaggagca catttgacag aacatctcgt agtggaccta aggcttttgt 240  
gagcgagtac gctgtctgga gaagtgcgc gggtagagga agtcttcttg ctccgttggc 300  
tgaagctgct ttctcactg gtctggagaa gaacagtgat attgttcaga tggcaagtta 360  
cgcaccactt ttctgaacg acaatgacca aacctgtgac ctgcacgcta ttcgtttcaa 420

cttctggcat cactattgaa cttc

444

<210> 26945  
<211> 406  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-043-Q1-K1-F2  
  
<400> 26945

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gggagaacaa gtogttggaa acggtgaggc ggctgctgga ggagaccttc acgagtgagg 120  
cagatgcgga ggcgctaccg agcttgccct cggggttcta cgacgccttc gtcctgaggg 180  
gaatccgcgt cgtccaggcc ctccagcccg gcacactcct ctgccacttc aacgtgccct 240  
ccagactact caactcgggc ggcttcctgc acggcggcgc aaccgccttc ctctgggatc 300  
tggttgccct cgnccgcttc gccactgccg ggctacgcac caggggctca ccccttgaga 360  
tgaacatctc ctaccttgat gctgcttttg ctgatgaaga gattga 406

<210> 26946  
<211> 227  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-043-Q1-K1-F3  
  
<400> 26946

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gggccttgct ggagcgcgct gttgtcagat gatatgcagg gactcactgc tgtgcagtac 120  
cgctagaatg cggctggtgc tgaccgagtc caacatgagc acccgtacga acgtcatgct 180  
tgctaggccg gcttttgagg ccctggccaa gcccgggatg gcccatg 227

<210> 26947  
<211> 209  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-043-Q1-K1-F5  
  
<400> 26947

gcgcccacgc gttcgcggtc gcgtgttctc tttcactcgg gcatcatcga catcgagttc 60  
accaggggtgc cgtgcgagtgc ccctggcctc aagatcgggg tccacgtgga ggagtactcg 120  
agccccgtct acttcgcggg gctgggtggag tacgaggacg gcgactgcga cgtgggtgcat 180  
gtggacctga tggagtccaa gacggcgcg 209

<210> 26948  
<211> 130  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F8

<400> 26948

cgcacgcgtc cgcggtacgc gttggaacta agatgagctc atatgtcacc ttggagaagg 60  
atatgtctata cctagaaaga agggacagga tagggatgaa ctaaaaaaaaa aagaacaaca 120  
aagacaaaaa 130

<210> 26949  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-F9

<400> 26949

cccacgcgtc cggaatttcc aactgcgagt tttcaggaca ccaccagat ccacaccac 60  
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atcaccattg agaactcgcg gtccgacgag aagctgctct ccgtgttccg cgagggcgctc 180  
aagtacggcg cgggcatcgg ccccggtgtc tacgacatcc actccccag gatcccgctc 240  
gctgaggaga tcgccgaccg catcgacaag atgctggcgg tgctggacac caacatcctc 300  
tgggtgaacc ccgactgcgg ccttaagacc cgcaagtaca cggaggtcaa gcccgccctg 360  
accaacatgg tctccgtcgc taagctcatc cgcaccacgc ttgccagcgc caagtgagca 420  
cctttttttt gcctttt 437

<210> 26950  
<211> 325

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-G1  
  
 <400> 26950  
  
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 agcgcaggat cgggggtggcc atcgactact cggagagcgc caagaaggcg ctggactggg 120  
 ccatcgacaa cctgctccac cacggggaca ccctcgtcgt cgtccacgtc ctgcaccacg 180  
 gcgcggagga gaccaagcac acgctctggg ccaagtccgg atccccgctg atcccactct 240  
 ccgagttccg ggagcccagag gtgatgcagg gctacggcgt gcgccccgac gccgaggtgc 300  
 tcgacgcgat cgacacggca gcgcg 325

<210> 26951  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-G10  
  
 <400> 26951  
  
 cccacgcgtc cgctcattca gaacattctt ggtcgcttca ccactccact cgccggaggc 60  
 cgtctgtcgc cgccgagggg atcggagcaa gatgttcttc cacatcgtgc tggagcggaa 120  
 catgcagctg caccacgac actttgggcc gcaccttcgc gacaagctcg tttccaagct 180  
 catcaaggac gtcgagggca cctgcagcgg gcggcacggg ttcgttgtgg cgatcacggg 240  
 tgtggaggac atcggcatgg ggctcatcct gtaaggcacg ggatacgtca cttccccctg 300  
 caagtaccat tgcgttgtct ttagaccctt taagggcgat atcctcgaag ctgtcgtttc 360  
 catggtgaac aagattggct 380

<210> 26952  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-G11  
  
 <400> 26952  
  
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catcgtatga gcgagaaaag atgggccaga cattcacagt tcattacttc acttatgaga 120  
acggaatcca gaagtactta atctggggtc tgaccgcccg catcttgatc catgctgctt 180  
cagttgtata cgagcgaccg ccagacttta cagagcgaag agcacatttc aaattgccaa 240  
agttcacaaa ggactgctct tcaatgcgca ggacctgcta aacattagtg cacactgcct 300  
acgctgctat ctcagctaca tgctatttgg attacatgat gttgcaccaa cagagtttat 360  
tgaatcta ataggcgtccaa atcacttgat gtcatatg 398

<210> 26953  
<211> 412  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-043-Q1-K1-G12  
<400> 26953

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gtggtgcctt ggctgacctg accagcaagc aaataggccc agccaactcc gatcccaccg 120  
gcaccagccg cccgcaaccc gcaaagctgc ttccccggact agctagggtt tcgtctacgc 180  
cgcttgatct agtcctctct cccggcacgc gagggcgagc cgttgatggc ggcggcaccg 240  
gcggacgcta aggcggaggc cgccaagatg gacctcctcg aggacgatga cgagttcgaa 300  
gagttcgaga tcgaccaaga atgggatgac caggaagaag gcaacgaaac cgttcagcag 360  
tgggaggatg attgggatga cgatgacgtg aacgatgatt tctctttgca gc 412

<210> 26954  
<211> 395  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-043-Q1-K1-G2  
<400> 26954

cccacgcgtc cgcttacgcg tccggaatca gatgtaggct ggccggcgat gtcgccggca 60  
ctcggaaggc cgtcatcgac atcgctcgagc tctgctacaa ggccggcgcg tggaagacgc 120  
taaacgacca gatcggtctc ctctccaaga ggagaggcca gcttaagcag gccattactg 180  
ctatggttca gaaagcaatg gactacattg atttgacacc agacattgac acacgagtcg 240

agctaatacaa aacactgagc agcgtctctg ctggcaaaat ttatgttgag atagagagag 300  
 caagattgat caaaaggctt gcaaataatca aagaggagca aggaaagatt gacgaggctg 360  
 ctgatttgat gcaagaagtt gctgtcgaaa ctttt 395

<210> 26955  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-043-Q1-K1-E6  
 <400> 26955

cccacgcgtc cgagatacca ttctcgattg aaaacaatcc tgaaaccaag ccatgggtct 60  
 gcaggagaaa tttgaggagt atgctgttaa ggcaaagacc ttgcttgaga acacgatcaa 120  
 tgagaacaag ctgatcctat acggtctcta caagcaagcc acggttggag atgtgaatac 180  
 cgatcgccg ggcataattct accaaaagga caggccaag tgggatgcct ggaaagctgt 240  
 tgaaggcaaa tcgaaggatg angcgatgaa tgactacatc accaaggatga agcagctcca 300  
 ggaggaggct gccgcctctt aaaagtctct taatagtgtt gccaaacagc tttttgtcag 360  
 atgagctttg tgccatttcc tcattagaag tatatcattc gatccattgg ggatct 416

<210> 26956  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-043-Q1-K1-G4  
 <400> 26956

gatgaatttg ctcatcttgg ctgatcattc cagttacgta caataatata tgacctttct 60  
 tgttgagttt gagccgtcaa catacatgac atggacgcca agctcttgct tcaggctcctg 120  
 tctcccgat ttctgccaag tttttgcttc agcccaagag caggaaacca gataatgtag 180  
 atgctaaaaa aaagctcttt gggatttgga ccagtgaagc tattgctga aaggttcaag 240  
 ttttgaagag gacagttgct tagactccaa ggtattatct cactgaggc cattggcatc 300  
 cagaacaaat ctagaaagca ctgttaaatt tctaagagtt tctgggatta aattgctgag 360

agtttctggg atattcgggc ttcttgag

388

<210> 26957  
<211> 371  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-043-Q1-K1-G5

<400> 26957

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cgggctcaac atccccgaca tcatcagcga gcacctcggc tcccagcccg cgtgccgta 120  
cctcagcccc gacctccgcg gcgaccagct gctcgtcggc gccaaacttcg cgtccgcccg 180  
cgtcggcatc ctcaacgaca ccggcataca gttcgtgaac atcatcagga tctggcagca 240  
gctgcacaac ttccaggact accagcagag gctggccgcg ttcgtcggcg acgacgcggc 300  
gaggcatgtc gtgagcaatg cgctcgtcct catcacgctc ggccggcaacg acttcgtcaa 360  
caactactac c 371

<210> 26958  
<211> 203  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-G7

<400> 26958

cccacgcggt cgagctcacg ttgaaatctt cgacctgcaa aggagcatat aaggcatacc 60  
agaatctgca gaaggtatac atgggagcga cagtaatatg ctgtgctgcc gctgggtattc 120  
ctccagatgt tcagctcatg ttatcgatcg gtacggctgc ttaagtcagt gccgctgtag 180  
catacgcatt ccatgagctc cag 203

<210> 26959  
<211> 206  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-043-Q1-K1-C8



<400> 26959

agaagtccta gtgttactag ctttcctttc gctgcatctc agagttccca ccttggggttg 60

gtagataata agaatgttat tgatacacia aggctagaag aagaaaagaa aaggctttac 120

cgaaggggagc tactgctatt gttctacttg ttatatattga tgatgcaatt ggttatcatt 180

tatctactct tgatcagttt ttataa 206

<210> 26960

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C9

<400> 26960

cccacgcgtc cgagcattta ttgaggatat tcacaagatc aaaatatcgg aacttggcgg 60

aagtcacctt caatcagcag aggggacagg agatcaaaat gataagttaa aaagtttgga 120

agtacaggct tcacaggaag acagtataga agaccaaccc tacaagcttt gtgctgtatg 180

tcacagcctg ggtgggtgcag ttatgctgat gtatgtgggt acttcaagga tcacacaaaa 240

gccccacaga ttgtctagac tggctcctgct atctcctgca gggtttcatg aggattccaa 300

tgtgggtattc agtatggtag agaagctcat cttgtttggt ggtccagtgc ttgcaccact 360

tattcctgga ctttacatac caactcgggt ctttaggatg cttctgaaca aattagcaag 420

ggatttccac aattattcag ctt 443

<210> 26961

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D1

<400> 26961

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agcatttggc ggtagcgtt gacgagcgac gagtaaacc taatgctttg atcgcggcgg 180

cgtcgtttga gacactcccg aatcgatccg cctacatgcc tatgaatcct acttcctcgt 240

cgactcctga gtcggcgtct tcgacgcctg ctgtggccag ctactttcct ctacctttcc 300  
acctgcagca gcaccagccg cagccgc 327

<210> 26962  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D10

<400> 26962

ggaaaggaga agagaggggtc ggaatatatt cggccgagga gggtgccgtg atcgcggtgcc 60  
acaccaagga cgagttcgac gcccgcatgg ccaaggccaa ggagcagggc aagctgggtgg 120  
tcatcgactt catggcccc tggtgcagtg ggtgccagat gatggccccg gtgtacgcgg 180  
actgcgccag caagtaccct tccgcggtct tcctcgaggt cgacgtcgac gaactgctgg 240  
aagtcgcgaa gatctacggc gtccatgtga tgccgacctt ctgcttcacg aggaacggcg 300  
agacgctcga gagctttgct accgtcgacg aggacgagct cggggacgcc gtcaggaagt 360  
acgccgtcgc tggcactacg actgcttctg cctcggcgta cgtctaattc aggagatgtg 420  
atgtgtagca aatagcgcgc gc 442

<210> 26963  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D11

<400> 26963

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aatggctcgg gggcctgttg acaatcctgc tgagagtga atgtgcaagt ttcaagtact 120  
tctaacttct aattacctgc attacaaata tcattttttc ccaaatataa catagcatca 180  
ggtttttctc tggtcatact ttttagtaa cttaattcct ttgagttatg tagtattaaa 240  
attatgattg gctatctttt gatgcaatga agttaatatc tgtaactttt tactatggaa 300  
tctttctgac ttttaagttac taatatttgt tttgagttct ccatattgct ctgatattat 360  
tgatgtttgc aaccaaactt aagcta 386

<210> 26964  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-D12  
  
 <400> 26964  
  
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 tgacgtcaag aatgaattca agtcaatgtt tctgagcttt gccagtgccca agaatgccgc 120  
 catggagatc ccacctgaaa actacctcat tgtcacaaaa aatggaaatg tgtgcctggg 180  
 cattcttgat ggaacggctg ccaagctgag tttcaacgta attggagaca tcacgatgca 240  
 ggatcagatg gtgatctatg acaacgagaa atcgcagctg ggatggggcg gtggggcatg 300  
 cactaggagc gccaagtcta ttctgtcttc ctttccctga gctcagttct atgtacttct 360  
 gatagagttt aagaaaatca ctatattaa cttctctgca atgcatgaat ttctaactg 420  
 aagaaggaag gaaaaagaga gag 443

<210> 26965  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-D3  
  
 <400> 26965  
  
 agctcttgca ctagctagag accgaactga gagttattgg agaaccatga tgaggctctgg 60  
 ccttatctcg ctatgtttcc acctagccct ggccatcaca ctggctgcaa gtgttctctg 120  
 ccttgctcgt agtagggtaa tcgacatgga accgcaactc aaaccgacgc tgcaactaga 180  
 accaaagcat ggtgtatctc aaccagacag aaaccaagaa cccaaaccga caccacaatc 240  
 tgagccaaaa ccagagccta aaccggaacc tgaacctgca ccacaaccag accccaaacc 300  
 cgcaccacag ccggacccaa aaccgcgacc acaaccgac cccaaaccag aaccxaaacc 360  
 tacaccacag ccgacccaa a 381

<210> 26966  
 <211> 53  
 <212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3067-043-Q1-K1-D4  
 <400> 26966  
 cggacgcgtg ggcggacgcg tgggcggtcg cgtgggcgga cgcgtgggaa aaa 53

<210> 26967  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-043-Q1-K1-D6  
 <400> 26967

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 cagaatgcta ctctcaccct tcaaggctgt ggcggggcca tggacgacct tgtcgagcgc 120  
 tttaaggacg ggctccacat gtgcatgacc gaggtctatg acaagaagcc ggagttgttc 180  
 gaggccttca tggcctgtca ggctcccaag tacatggtgt tcgcctgctc agactgccgc 240  
 gtgagccctg cggtgacact gagacggcag cccggcgagg tattcaccgt ccgcaacatc 300  
 ttcgccatgg ncccagccta cgacaagacc aagtacactc gcatcgggtc cgtcatcgag 360  
 ta 362

<210> 26968  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-043-Q1-K1-D7  
 <400> 26968

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 actcactgac gctgaggtcc ccctggacgg ctacgggtgt ggccgtggag gcggcggcta 120  
 cggcgggtggc gggcgccgat cggtttcgga gaagagaagc aaatcaagat gtttctcggc 180  
 tcgctcccgc ggcgcccag caaggaggct gcttacaagc agctgcngtc ggacatcatc 240  
 atcatggcct gctgcgccgt cgtgaatgcg gccaccctt acattctgca attcgctcgc 300

ccgcgacggc gacattcagg aactcaagct agatct 336

<210> 26969  
<211> 62  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-D8

<400> 26969

gacccacgcg gccgccagcc gccgtcggat cggattcgaa ctatagcaag cagctgcagc 60  
cg 62

<210> 26970  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-E1

<400> 26970

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cgcgtcttct tcgacatgac cgtcggcggc gcccggcgcg gccggatcgt gatggagctg 120  
tacgccaacg aggtgccc aa gaccgcggag aacttccgcg cgctgtgcac gggcgagaag 180  
ggcgtgggca agtccgggaa gccgctccac tacaagggct ccaccttcca ccgggttatc 240  
cccagattca tgtgccaggg cggcgacttc acccgcggca acggcaccgg cggcgagtcc 300  
atctacggcg agaagtttcc cgacgagaaa ttcgtgcgca agcacaccgt ccccgggtgtg 360  
ctcttcatgg gc 372

<210> 26971  
<211> 238  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-E10

<400> 26971

cccgcccgac ccactcgtcc ggcggacgtc agcacgttcc tcctcagcct cggcgtgctg 60  
tgccagtcgc tgccgcgcgt gctgcgctac gcggtgggcg ccggcgagca ctccgtcgcc 120

gcggccacca cgggtgctcga cctctccgc gcctgcagcg tcgtcatgct gctcgcctac 180  
gtcgcctacc tcttctatca gctcaagacg cacgcgcagc tggtcgagcc gcatgagg 238

<210> 26972  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-E12

<400> 26972

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atcaccggca cctcccaggc tgattgtgcg gtgctcatca ttgactccac cactggtggc 120  
tttgaggctg gtatctccaa ggacggccag acccgtgagc atgcgctcct tgctttcact 180  
cttggtgtga ggcagatgat ctgctgctgc aacaagatgg atgccactac cccaagtac 240  
tccaaggctc ggtacgacga gatcgtcaag gaagtgggtt cctacctgaa gaaggtgggg 300  
tacaaccggg acaagatccc ctctgtgcc atctctgggt tcgagggtga caacatgac 360  
gagaggtcga cgaacctgga ctggtacaag ggccccaccc ttcttgaggc gctggaccag 420  
atcaac 426

<210> 26973  
<211> 380  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-043-Q1-K1-E2

<400> 26973

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gagattggtg aaaaccatga gctcagtgg catatgacag tgcagcttgg tctgctactg 120  
cttgctctgg actctngcc tcggatgttg attccaaaac ctgttctact gaagaagcta 180  
catcagcaaa ggcacatcaagg tcaccagtac gcaatgcttc acggcgtcga tgaatcagtg 240  
ggagcagaac ctggggaaca tcatgaggga gcacatgtcc atgaggagtt tgagttcagc 300  
gaagttcttg atcaccagct gattcacacg aacgaatttg gtcttggtgc agtcccaaac 360  
acagctgtcg accttcggcc 380

<210> 26974  
 <211> 203  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C5

<400> 26974

ggaaaacagc tttgtcgact ttcattcatt atatattaca ggtacagcac atgatgtgta 60  
 tattgtttca gtagcttggt ggacgaattc ctgttcctgg tcatccggcc gccgagaagc 120  
 cttctcgcca tctagcattc tcttggtcat gttggccctc tgaacgagcc gcaccagcgc 180  
 ttgcaccagc tgcattgacat tga 203

<210> 26975  
 <211> 287  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-E3

<400> 26975

cggacgcgtg ggcgtgtacg cgtgggcagt agatgttatg tgtagcaaata agcgcgcgcg 60  
 caccagtcgt caataaataa ataaataaat aaataaataa ataaataaag gccaacgtac 120  
 gacgacaaat tagtggcgcg cgcggtagta gctagcagag tatgcgccgt cactgtgtcg 180  
 atctgcagtt tggtcgttta aaagtgattg tagtgtgtac tatgttcagc tcatgatata 240  
 aggagtcgct atatacgctt gctcccgtgc tgaacagggt atcgatc 287

<210> 26976  
 <211> 393  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-043-Q1-K1-E4

<400> 26976

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tggctggaaa acttgaatct gtatcagcga gaggaatgga tcaggagaga tcaaggtatc 180  
 aaaagataga agaattgaaa gaaacagtaa gagccacgga agatgcaaaa acacgtgcac 240  
 ttaaagaatt ggaacttata aaggataata acatgaatga aattaaaaga tntaacaagg 300  
 aaaggcgcca agatttggtg gagatgctaa aagggttgt attggatcag gccacatnac 360  
 tcggatcatt tgctacaata tggacaaaag tag 393

<210> 26977  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-043-Q1-K1-E5  
  
 <400> 26977

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 ccgccaaga gcacccacta ggttaaattc gccaggggga aatctccatc aagtggctcg 180  
 tgctaattat gcgatcttca tgggctgact cagttgcgaa cgccgaggaa tcggcgcccc 240  
 cgactgctgc tgctaattggc tctgntgcaa ctcatagcac ctgcgcacct acgcgcagct 300  
 cctacgtgcc ttcacatctt cggggccgct cagctggtgc tgcttgtaga gctcaagcag 360  
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 aggtgctgc t 431

<210> 26978  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-A6  
  
 <400> 26978

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 aagcattcca aaatggaagc actgatttgg gaaacaagaa tgggtgcacca aaaactgttg 180  
 aagagagaat agaggaatat aataaagcac gagcacgcat cttcaatggc tctgtttctg 240



cagattctga tgctgcaagt gttctgggaa ctctttgcac tggcagagat gagtcagtaa 300  
atgttgaacc ttctgttgat taaatcaaag tcagcacgat gaacaaccgt tccatagttg 360  
ct 362

<210> 26979  
<211> 406  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-043-Q1-K1-A7  
<400> 26979

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gcagtttaca agggcgctca tcggctgggg cttccagctc atggctcctga aaggctctgct 120  
ctactcgatg ggtggtggcg aggtgccact gctcgacttg gtagcgtacg gtggttattt 180  
attcgccggg ctatcgctcg ccgctcgctcg gaggtcatg tgggcgtact cgtactatgt 240  
gatgatgccg tggatgagcc tgtgcatggg ggtgttcctg gtgaggacga tgaagagggt 300  
gctcttcacg gagatgagaa gcagcgagag gactcgtcg cggcagcact acttccttct 360  
cttcatggca atcgcacagt tcccctgttc ttctggctcg gcagca 406

<210> 26980  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-043-Q1-K1-A9  
<400> 26980

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aatcatgcc aagaataacg taacgtgcag agtgctggg cggctcatcg tttattcttt 120  
cacacaagac aacaacaaaa gaacagactc gaaaccaacc cgtaatcact cgaccacagt 180  
cgccctgctg ctgctgctag tcagtataca acgcttctgc agcatcagct cccgaaacct 240  
acccgcggcg tcggcgaggc cggcgcgag gagggcgctc agcagccggt tgcaggcgga 300  
gacgtcgaac tcgggggcct tggagcgctg ccaactggtcg acgacctccc cggcatcctc 360  
caagccgccg cacgccaggt aggacgagac cacgcagacg tagttccggc tcgtcatgcg 420

ctgctgcgac tg

432

<210> 26981  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B1

<400> 26981

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tatagaaaac agaagttcca gggattcacg gtggatgaag ccctgatgga gattgctggc 180  
ccacaggcct accttatgca ctgtttgccc gcagagagag gaggagggt gacagacggg 240  
gccatcgagg ctccaaattc aatcgtgttc ctccaggctg agaacagaat gcacgctcag 300  
aacgccatca tgcttcatgt tctcggtgct ta 332

<210> 26982  
<211> 335  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B12

<400> 26982

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aactgaggtc agatcagacg tgggtggtgac tagccatgaa agtgaacttt actgttaccg 180  
tactgtgcga tcaactggtg ggggtaatta gctagctagc tagctgctgg gggttatggtt 240  
aatgcatgaa ctgctattag ttaccagggt ttagtggttac tctcgagtcc tgctcttggt 300  
actgtttgtg tactgactgt gtcactccac tacta 335

<210> 26983  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B2

<400> 26983

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gctttctaag attttgcaat gtgtcctcca gaaaggaact gatggtgata agattagcca 180

tgaaaaagag gttattgctg cagccgatga ggttggtggc agtattgata aagaggaact 240

ggctaagtat ttatctctaa attcagatcc tgaagatgaa gaagcacaga aattcaagaa 300

aaaaatagaa gatacgcggg atcagttggc tgatgcacta ta 342

<210> 26984

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-043-Q1-K1-B3

<400> 26984

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tgccgtgatt taacgtgaga agctatcttg gtataatggc acccacagnc catcaaattg 120

cctgatccaa agcccaagct caaagctcag tatcnagagg gttgttaaca atctcaaggg 180

cgtaataact gctgatgaaa tgggcctgca cgtcaaagca atgagagcac tcaaaaccag 240

acttcattgg aagaagactt cacaggccaa agggctgaaa agtccatctc ggcaagtttc 300

cctgtagatt cccttggggc ttgaagaaag tattcgatta cccttccagg cagagtgagg 360

ttgacattgg cagccctaag gcatatgacg gagaagtgat ctgaaaagct tgggcattcc 420

aa 422

<210> 26985

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B4

<400> 26985

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cattttaact ggatgtcatt ttccaattga tacaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaaaaaaat gataaaaaaa 180  
 aaaaaagtaa aacaaatta 199

<210> 26986  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-043-Q1-K1-B5  
 <400> 26986

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 tggtcggttt gatcaaagaa caacccatga ggaaagacga atgactctgg agacactcct 120  
 gcatgatgaa gagagatatc aagactctgt tcatgatggt ccttcattgc aggaagtga 180  
 ccgtatgatt gctaggactg aaagtgaagt cgagcttttt gatcagatgg atgaagactt 240  
 tgattggaca ggtgatatga cgaagcatga tcaggttcca aagtggcttc gtgttaactc 300  
 caatgaagta gatgctgtgg tggctagtct gtccaaaaag ccgtcaagaa atatgtcatc 360  
 tgggggca 368

<210> 26987  
 <211> 195  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-043-Q1-K1-B7  
 <400> 26987

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 tgattaaaga aatggggctg ttccattcca tgactgaata tgtcatgtac ataacaccct 120  
 attgccatac ggtaacaaat gatagcaatc tgttgcagac atagattatt cgatgatgct 180  
 tttaaagata tgcatt 195

<210> 26988  
 <211> 143  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B8

<400> 26988

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ttgacgcggc ggatgtttgt aattccaatg atacaactca gatccaaaaa aaaaaaatt 120  
aaaaaaaatt aaataaaaca aaa 143

<210> 26989

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C11

<400> 26989

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gaagcttgcc tacgttggcc ttgattatga acaggagctg gagactgcca ggagcagctc 120  
ctctgtcgag aagagctacg agatgcctga tggtcaggtc atcaccattg ggtcagaaag 180  
gtttaggtgc cccgaggtgc tgttccaacc atcccttggt ggcattggaat cgctggcgt 240  
ccatgaggcc acgtacaact ccatcatgaa gtgtgatgtt gatatcagga aggatttgta 300  
tggtaacgtt gtcctcagtg ggggatctac catgttccct gggattgccg atcgtatgag 360  
caaggagatc acgttcctgg ctctagcag catgaagggt aaagtgattg cgccacctga 420  
aaggaagtac agtgtctgga tcg 443

<210> 26990

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C12

<400> 26990

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aagatccagg acaaggaggg catccccccg gaccagcagc ggctcatctt cgccggcaag 180  
cagctcgagg actgtcgcac cctcgccgac tacaacattc agaaggagtc caccctccac 240

ctggtgctcc gccttcgagg tggctccaag aagcgtaaga agaagacgta caccaagccc 300  
aagaagatca agctcaagca catgaagggtg aagctctccg tgctgcattt ctata 355

<210> 26991  
<211> 276  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-043-Q1-K1-C2  
  
<400> 26991

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gacaattgct tgctgttccct cctggaatca tcagaagtca aagacgatgc tgcttacaga 120  
gcaccagana acatganatc caacagaatg ctaacgcccc aatcagacat atatgctttt 180  
ggtgtcctnc ttcttgagct ccttagcgga aagccaccgc ttgagcactc aatcttggtc 240  
gcaagcaatc ttcaaacctt tgttcagtc gcgaga 276

<210> 26992  
<211> 390  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 26992

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ttctgtgagc tgggtgcccc ctaacgtctc aggcagaagc aaggcggcgt tgccttcgca 120  
tgatcctgaa atggaggtag atccatggaa tcttctcgaa gatggcacia gctgcccttc 180  
aacagcatct ggaagccatg gcgcgagtg agtgacgggt gaccatgcta atctgaaagc 240  
gtgcagctgg cttaaggggt ctgtgagggt gaggaggaca gaactgacct acattggctc 300  
tntagacgat gacacctgac gtgtgtatga ttattttggt gaattgtgga agaaattagt 360  
ctcacctgtt ggcaactggag tgaatgggtg 390

<210> 26993  
<211> 383  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-043-Q1-K1-C3

<400> 26993

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aaatgagctt gaggagaaaa tgctgttgaa cttgcacaaa aagaaatgga ccgatgggct  180
aattttgaag aggtttgaca ctactcgaa aaccaacgag cagactgtcc aggaaatgct  240
aaacctagcc atcaagtaca acaaggcagt gcaagaggag gacgaactgc ctntgagaa  300
acttgcgata gcaaatgtgg gtcggcaaga tgcaaaaaag catttggaag agcatgtgtc  360
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<210> 26994

<211> 220

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-043-Q1-K1-C4

<400> 26994

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tggcagtcaa gcaccgggat cacatgaggc gaaagataat ggcgatgaag attggcaggt  120
ggatgagata gcttgggtatt taggctctgc ggaatgcggt gaatcatata attgtagtgg  180
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<210> 26995

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G8

<400> 26995

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acgaagatga acgacactat gaagacgtat gggaagggca tattattatc gctgtgcgaa  120

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tggtggaggc aaaacgctga tacctgggca agctgcatgg ggaacagatc gagaacg 177

<210> 26996

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G9

<400> 26996

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gtgcactgag cagaggaaac cttggatttg cacttctact gatgccatgt cacctttcaa 120

aaaaaaaaa aaaaataaaa ttatataaaa taaatagtag tacattata 169

<210> 26997

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-H10

<400> 26997

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aggatggtca acaacatcta cctgaacttt gatgctttac atggagacaa ggaccatggt 180

ggtgtgcgcg acgggacggc ccttgtgctg tgggagtggg gcgagggaga caaccagcgc 240

tggaagattg ttccctgggtg aacaaggaaa tgtgtgaccg agcccgacc aaggaggagc 300

tcttgccgta ataagtgaag tgattggtac tgaagtttct ggaaataaga tgcttttcct 360

agatgcctgt ttgtgtgagt atttgcgttt ccaatttcgt tttcatgatt attaaacgcc 420

ttgatatt 427

<210> 26998

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-H11

<400> 26998



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 gtcgctcctc ccgagcttcc tctacgcctc ctcggcgcg cttttcgtcg ccacaggagc 180  
 cgccgcgcgc ctccctgtct cctccccggc gcctgccgcg gctggagcag gaggcggcgt 240  
 gccgttctcg atccaggcgc ccaaggagaa gatcgagatg tactcgccgg ctttctatgc 300  
 cgctgcact gccggaggaa tcgccagctg cgggctcacc cacatggccg tcacgcctct 360  
 cgacctcgtc aagtgcata tgcagattga ccagcgaaa tacaagagta tctcatctgg 420  
 atttggtatc ctgttaaagg agcaa 445

<210> 26999  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-042-Q1-K1-H12  
  
 <400> 26999

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 agggtcgcta ctcccagcgt gtcggcaccg gcgccccctg ctacctcgt gccgtcctcg 240  
 agtacctcgc cgccgagctc ctcgagttgg cggggaacgc agcgcgggac aacaagaaga 300  
 accggatcat cccgcggcac gtactgctgg cgatccgcaa cgacgaggag ctcgggaagc 360  
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<210> 27000  
 <211> 250  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-042-Q1-K1-H2  
  
 <400> 27000

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gcccttggtgta atggggcatta ctataccgct atggcggttg atgacctaaa attacattag 180  
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 aagaacccaa 250

<210> 27001  
 <211> 341  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-H4  
 <400> 27001

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 tggcgggtggg gttggtcggt ggcccggtgc cgcaggtcgt tgcaatcatg caggcgatcc 180  
 atccaaaaag tacttgttgc cttggcgggg ttctcaggtc gctgaccagc gtggtcgcgt 240  
 actgggcatg catgtttttg acgcttgcta tttgcctatt cgggggtgggt gaggcattgaa 300  
 actttatata tatagagaga gagatttatt aagattaatt g 341

<210> 27002  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-H5  
 <400> 27002

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 ttgaaaacc agcccagggc gctgtgggat catggtagat taatgcgccg cgcacgccgc 180  
 atatcatgcc atgaacttag ttgaggccaa tctgtgctgc tgaaatcaaa cacttatgaa 240  
 cgtttgttct gaacatcact ggaactctcc atttgcttgt atgacatgct tatggttcag 300  
 cgagttaaat tccaacgttt ggctc 324

<210> 27003  
 <211> 358  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-H6

<400> 27003

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tatgctggcc gtgggggatgg tcgttggccc acgtccgcag gtcgttgcaa tcatgcaagc 180

gatccatcca aaaagtactt gatgccttgt cggggttctc aggctgctga ccagcgtgggt 240

cgcctagtgt gcatgcggtt ttttgacctt ggctacttgc ctattcaggg tgtttgaggg 300

atgaaactat atatatatag agagagagat ttatgacgat taactgacct tgtacagt 358

<210> 27004

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-H7

<400> 27004

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ccaagagaca agtgaagggt caacacagga ccggccatat aattagaaga cccaccgggg 120

caacacacac tatgaaaacc caaccgaagg cgctgaggga tcatggtaga ttaaagcgcc 180

gcgcacgccg aatattatgc catgaacata gatgaggcca atctgtgcag cttaaataca 240

acacttatga acgatagttt ttaacattac tggaaca 277

<210> 27005

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-H8

<400> 27005

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ctcccgtcgg cgctgcgca gatttggccg ccgtcgccgc tgaccagggc tgtcttgatg 180

gcgcccgatg cagaagccgc taaggggaca ggcaccgttc cacaaaggtg ctctgccatt 240  
gaacgaaagg atactggcat gcatgtccag gaggtctgct gctggacacc cttggcatga 300  
tctggagata ggccctggag ctccaacat attcaactgc gtcattgaga taccagggg 360  
cagcaaggtt taatatgaac ttgacaagga aactggactg 400

<210> 27006  
<211> 233  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-042-Q1-K1-H9  
<400> 27006

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catgacaggc cggctcggct gaaacgtcag cagggccaac acaccaaca accccagcaa 120  
gtgccgcatt agcggcgact cgcccagcac ccacacacgg cgactgaccc aagaacaact 180  
gatccatgga accacacgag gaagacgctc gaccgctaga cggcaccgta cga 233

<210> 27007  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-043-Q1-K1-A11  
<400> 27007

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acctgaaatc caaggagctg agcggccacg acatctttgc tcctccggaa gaccacggc 180  
cacgcaactc agagaacggc tcgacctcgc agaccccgga caaaatgca cacgtaagca 240  
acttcaagtt cggcgaggcc gacgaggacg gcatggtgaa gaccggaag aagatcccca 300  
caaagaaatt caccgacctc gcgggcaata tcttcaaggg cgacgagacc cccctggga 360  
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cggacgggaa agccccctcg cgg 443

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 caagcgacca gcgacgtggt agtgcggcta cggacgccgg agggccgcga cgagtggctc 240  
 tactgccact ccgcggtcct cgccgccggc agcacctact tcgccgaccg cctctccgac 300  
 gcctggccga cgtgccagat cctcggctcg cgctactgcg tcgaggtcta ctgccaggag 360  
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 <223> unsure at all n locations  
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 <213> Zea mays  
  
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 tgagatcaag acaacttcaa gtttaaagtt ggttgatttc agaccacaac atcttaagcg 180  
 atcaaagttg gacgccttca tgtaggcaca taagttattg ttacctggta agtctgttct 240  
 agtccaagtg ttaatatgtg tcttgggtag ttatttggtc tgaagacata cacttgattt 300  
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<210> 27011  
 <211> 221  
 <212> DNA  
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 <223> Clone ID: LIB3067-042-Q1-K1-G4  
 <400> 27011

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 aactggttgt gtggcttcca gccctgtgca ggaagatgga ggtcccttac tgcattgata 120  
 aaggaaaggc tcgccttgga tcgattgttc acaagaagaa tgcacagtc ttgtgtctga 180  
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<210> 27012  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gctggccctg actagagtc cgaagggtcaa gtacctcatc atcatcggtg gcgccaagtt 180  
 ccagtcaccg acggtggcca gcaaggcgtc cgccaacaag atcgcatgcc cctcgcttca 240  
 cttcatcggt gaaaacgact tcctgaaagt ccatggtgaa aagctgatag aatcatgcgt 300  
 ggacccattc gtaatcgtc acccaaagg ccacacagtt ccgaggctcg atgacgagaa 360

gttagtggtc atgcaccgtt ttcttgagaa gattgaaggg gaagtacttg agtattcgtc 420  
 caaagatgtc 430

<210> 27013  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-E11  
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 gtacagcacg ctgatgccgt gcctgccgtt cgtccagatg ggcgggggcca tgccgccccca 180  
 gccgtgctgc ggcggcattc gcagcctgct gcagcaggcc aacaacaccc ccgaccgccg 240  
 caccatctgc ggctgcctca agaacgtcgc caacggcgcc aacgggagcg gcacctacat 300  
 cagccgcgcc gccgcgctgc ccagcaagtg cggcgtcgcc ctgccgtaca agatcagcac 360  
 caacgttaac tgcaacacga ttaattaaat gaggcgtcct gtgcgcgtcc gggcgaggaa 420  
 tgcatgcat 429

<210> 27014  
 <211> 171  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-E4  
 <400> 27014

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 tcctaataaa ccgaattgtg tatatgatgt ttgggaaaat ggtgattttt c 171

<210> 27015  
 <211> 339  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-E5

<400> 27015

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aaaagagcag tcgtgtagca tagttatacc ataatggcat tcgtagccat ttcacgtggt 120

gtcagtgtcg cagtttataa tgtactaggt ctagtgcggt atactgacaa aattgacggt 180

tctgatggaa gaacataacc tgaggaaatt ggcttggaag aagtactcat gagcatgttc 240

tgcaatttgg cgggcactca gactatctcc aattatatcc actatattcc ctctgtaaga 300

aaaaaaatct ttcgtattaa ttacggtgaa attgtgaca 339

<210> 27016

<211> 312

<212> DNA

<213> Zea mays

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<400> 27016

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tagccatttc agttttgtaa gtgtagcagt ttacaattta ctaggtctag tgcgttatac 180

tgacaaaatt gacggttctg atggaagaac ataacctgag gaaattggct tgttagaagt 240

actcgtgagc atgttctgca atttggcggc cactcagact atcttcaatt atatctgcta 300

tattccttct tt 312

<210> 27017

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-E7

<400> 27017

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gctccttcgt cggggccagcc attgttccag gccacatgat cacattctgg ctctggatta 120

tactccgtca ggtggaggct atcgagacac atagcggctt tgatttccca ttcaccccga 180

caaagtatat tccattctat ggaggagcag aataccatga ctatcatcat tatgtacgag 240



gccagagcca aagcaattct gcttctgatt tcacttactg tgattactta tatggcactg 300  
 acaaaggtta cagattccac aaaacatacc tagcaaagct taaggatctg gggcat 356

<210> 27018  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-E9  
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 cgccacgggc tacgtcttct gggacggctt ccacccacg gacgccgcca acaagggtgct 180  
 cgccgacgcg ctctctctgc agggcctaca gctcatcgcg tgagccacag ccacgcaacg 240  
 gcctcccgtc gcccttatac gtaccttgct gcttctgtcg ttcctctctg ctactgtgtc 300  
 tcgtgtgctt gtctgtctga ctgtctgtct gtctgtctgt ccatgatctc tcgtagcttt 360  
 gtgatgcttg gaaacacttg ggagtgtgtt aagatttctg gtctg 405

<210> 27019  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-F1  
 <400> 27019

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 actatcaagt tgctgaatgg tcacaactgg aacacatcat tttagaactg gagccagtac 120  
 ccaattaacc aaagcgtaca cgaacaaggg gaacaaagag ctctgggtgca agtagttgtc 180  
 ggcacattac atatgaagag tatattattg attgggagct gaagtgttca gtcaggatat 240  
 tgtcttggtat tcagcctgta cctatttg 268

<210> 27020  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F12

<400> 27020

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ctgtgatgga tgttcccatac accttacctt cgttgaaacc agcttttgac aagcctaacc 180  
ccaaacaagg cattgggtatg ctgtcatgga gcatcgacag ccaactatttc ttcaccagga 240  
atgacaacat gccaaactgtt ctctggatat gggatatatg ccgccttgag cttgccgctg 300  
tgctcgtgca taaagatcca atccgtgctg tatcatggga cctacctgc acactccttg 360  
ttttatgcac agagagcctt tacttgttca tg 392

<210> 27021

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-042-Q1-K1-F2

<400> 27021

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gggtgctcgcg tccgccaggg ccgggctgca gttccccgtc agccgcgctc ggcggtacct 180  
caaaaagggc cggtacgcgc agcgtgtagg cacgggtgcc cccgtctacc tcgccgncgt 240  
cctggagtac ctgcgggccg aggtgctcga gctcgccggc aacgcggcaa gggacaataa 300  
gaagacgcgc atcatccgc gccacgtgct cctcgccata cgcaacga 348

<210> 27022

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F4

<400> 27022

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aaggaagact gtagctgtgc agagatagtg agccctctgg gcgggtggcc gccatacaac 120

ccgcacagct tcagccagtt ggtttgtttt tattctacgc aacaacttcg aatgtcacac 180  
cattcacgta tgtttcgacc cacacgacag atccgtcacc caattcagtg ataacgaccg 240  
atgccatcaa cattctgttt aggctcttgt tctataaatt tccggagaat ttgatgccaa 300  
agagagctgc gcttgacaac ctatctcctg agaacaacaa caacatgaag caaccc 356

<210> 27023  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F5

<400> 27023

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tcggctaagg ccatgggcag ggatctgagg gtccacttca agaacacaag ggagacagcc 180  
tttgcgcttc gcaagttgtc ttgaccaag gctaagcgat accttgagga tgttattgct 240  
cacaagcagg caattccctt ccggagatac tgtgggggtg ttggtcgcac cgcgcaagct 300  
aagtctcgcc actccaatgg gcagggccgc tggccgggta aatcagccgg gttcatcctg 360  
gatttgcgtga agaattgctga gagtaacgct gatgtgaaag gctcggatgt ggacaacctc 420  
tatatttcac acatccaggt gaaccaagc 449

<210> 27024  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F6

<400> 27024

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gaagacggcg gctgtgcgga gatggggagc cctctgggcg ggtggccgct atacaacccg 120  
cacaacttca gccagttggt ccctgccgac ccctccgcgc agccctcgaa tgtcacacca 180  
gccacttatg ttgcgaccca caggacagat ccgccacca atcaagtgat aaccacggag 240  
gccaggaaca tcctgctgag gcacttgtag cagaaatccg aggagaagct gaggccaaag 300

agagctgcgc cggacaacct agctccggag aacaacaaca acaagaagca gcccagggga 360  
cctgtgggcg acgttggggg ccagtcgagc gcaagaagct gaagacgcac 410

<210> 27025  
<211> 125  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-F8

<400> 27025

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agacccccgg aggccacacg caccctaggc agagacggag gaaaacacca ccagagaaag 120  
gagag 125

<210> 27026  
<211> 167  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G1

<400> 27026

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gacgatattt tttaaaaaaa aaaaaagaat gtacaaaaga agataac 167

<210> 27027  
<211> 300  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G11

<400> 27027

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ggattagtca gggatcatctt ctcatgtat gcactaacag gactgttctg gtgttgtaaa 180  
atgtaaatat agtttgaaat agttgccgca gtttacctgt gattgtctgt cgttttatgc 240

ggttatgtag tctgtgtaa ctttcgttct ccaataattg cttggtagtt gcttttttac 300

<210> 27028  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G12

<400> 27028

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actgcgttca cctctgcctt ttgttcccc ctgcacgcgt tctctggcgc tcttgtctcg 120  
tgctgtgcac aacaactggg cgaccgccc cgccgcccgc gccgcctac gccaggtgcg 180  
caggtcttct tcggatcctt cgccagcgag gcgacgagca cctaccaggt gatgcccccg 240  
gcttaattga atgggctctc ttctcaccag gactggcgct ctgccatggc tccaggccaa 300  
gatcgttgat cccgtgctgc atgtcatcag aaggggagca gaaccaagc aactggcctt 360  
ctttgtgcc cttggtgtca cgattgggat ctttcgata tgtgggacca ct 412

<210> 27029  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-G2

<400> 27029

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gagcaatggg tgggtgattag tttgtcacca gtacctcact acctcgtgac agtggtcaca 120  
tatttccaag acccctggag gctacacgca ccctcgtcag agatggatgt aaatatctct 180  
agagaaagga gaggtctggt tctgattgct gtttacaggt tagagggtgca gcgtatttac 240  
aaagagatat aagagttatc acttatcatc agactgcctg gtttgctaaa taaagggtgaa 300  
tttagttact agattatgag accctctgtt ttgactgccg ca 342

<210> 27030  
<211> 145  
<212> DNA  
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<223> Clone ID: LIB3067-042-Q1-K1-G3

<400> 27030

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tcgccgagtt atgttatcta tctataggat cgggggtaccg tttcgttttg tcaccgtgtt 120  
agtggccggt ctacccttgg attaa 145

<210> 27031

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-042-Q1-K1-E1

<400> 27031

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ggctcctgtt gaaattcatc aggttctgga aaatggcttc cttgttgatc cccatgatca 180  
gcatgcaatc gcagatgccc tctataagat gctgtctgaa aagcaatttt ggtcaagatg 240  
tcgagagaat ggattaaaaa atatacacca gttttcttgg cctgaacatt gcaagaatta 300  
cttgtcaagg atattaactc taagtccaaa acatnctgct ttcgcatgca aag 353

<210> 27032

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B5

<400> 27032

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tgctgtacat caccaacttc gatttagagg ttgactacct caagacctcc tacaaaactc 180  
ttgaggcagc atgcgaagag ctacagggca gcaggttggt ccacaagata ctagacgcgg 240  
tcctgaagac gggcaaccgc atgaacaccg gcacgaaccg tgggaacgcc cacgccttta 300

agctggacgc gctcctaagc tagtcgac

328

<210> 27033

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B6

<400> 27033

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ggaatgggca tgctccgat gggcgggatg ggcatgccgc cgatgggccc tgggtccgatg 180

ccagcattcg ggatgccacc aatgggaagc tactgagatg tttttttttg gcagaaagct 240

tagatgatga tttgatatgt tcctgtgtaa gcagaggcgg aaacctcatt ggagttgtag 300

atggttacat tttggaatta atattcttta tgggtaccagg aaatttttgg ccagtgaaaa 360

tctggccaga gt 372

<210> 27034

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B7

<400> 27034

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cggtgctcgg ccgcgcggtg gaggaggtgc gctcgccct caacgagcac gccgacgtgg 120

ttgccgacct cttcggtcgc gtctcctccg aagtgcgcac cggcttcgcg cccgccgtcg 180

actccttcgt tggcttcttc cacgccgtcg actggaagga gccttggctg atcagcatac 240

tatctttcca tgccattctg ctactgggta ccatcatctt gaggagggat atcaatttcc 300

agctcatctt gtcagctcta acatattctg gtgtattcct tggctgaaga ttaaatacgt 360

tcctggcgca aaaactggaa gagctttctt tacccaata ctattttg 408

<210> 27035

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B8

<400> 27035

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ggttcgctta ccacttacc 79

<210> 27036

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B9

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aagccgctga aggcgccccaa ggccgacaag aaggagtacg acgagacgga tcttgcatat 180

ctgcagaaga agaaagatga ggaaaaagca ctgaaggagc ttaaggccaa ggcacagaat 240

ggcgcgattg ggggctcggg tctgaagaaa agtggaagaa aatgagactg gtcacccgctc 300

tccaatacct agaggatgat aaggcagctg tctatctgtg ttgcgcttca ctaagtgtga 360

ttgtaacagt ggtacctctt gtgatctgtg ttccgcgatg ttgcagttgg ttgcttgatc 420

gaaagatg 428

<210> 27037

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C1

<400> 27037

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gcagatgcag attcgatcag ctgatgaacc gatgacaaca atatacaggt gttgcaaaga 180

agaatgccag catgaatgga gagaggactg accatagcat tcgcactttg cttacacttc 240



gctccctgtg cttcttcagt tttagagtgtt gggatgccct gttgcacatg taatgcttct 300  
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<210> 27038  
 <211> 179  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-C11  
 <400> 27038

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 acttaagggg gcatcataag tacctcagaa gaaacctgcc aaggtcgtcc caatgaagga 120  
 accggttgaa gagagaaagg atgctgctat gtatttggtg ttattgatgt aaccaatga 179

<210> 27039  
 <211> 223  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-C12  
 <400> 27039

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 tgaaaactgc gaaactttta atccccaacc ggggacttac atataattga atattcagta 120  
 aagcattgca gtatggtgta tacagcgcaa attgtctgaa tgaccccacc acaatgtacc 180  
 ccacctttat tacaaataac atctaatac acactaacat aac 223

<210> 27040  
 <211> 153  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-C2  
 <400> 27040

caaagacatg cgagtaccag acatgtgcaa ttctagtagt atgggtgcgtg ttatcactag 60  
 gcacgcgtac tcgtatagtt gtgttcagtt ctgggtctat agagatatgt agccctgcat 120

tgctcgaaata aatactgtgt ccactcgttc gtg 153

<210> 27041

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C7

<400> 27041

gcatggaaca ccctctgggt ttttggattt cctcgccctg tgcttttgaa ttcatatcaa 60

gctagcatgc agaagttcca aggcaacacc ccggtgtatt tggccctcc aatcatggca 120

actgggaacc tgccattggt ggtaccaagc cctgcaccac ttgtgcagcc gttccaggcc 180

attcatccca tcatggttcc tgctgcaagc agcgtggtcc caggaaaata catgtgaact 240

tgtcatacca atgacaatct ctttctgttg gaagagtcc tggcttccag ttaccctttt 300

ggtttggggt atacgtctga aaggactccg cgattttgcc tggctctgttg attcacttgt 360

cagttgctgg tctgtgtccg tattttaagt tgaagggtt tgcaaccttg tcaatcttca 420

tgctctgtgt gggttttcga aatattc 447

<210> 27042

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C9

<400> 27042

ccacgcgtcc gccacgcgt ccgcccactc ttccgaaaat tataaaacca ccaaaaaaa 60

aaaaaaaaa gagacaactt taaaaaaaaa acgaggcaaa aaaaaaaca acaaacaaaa 120

aaaaaaaaag aaaaaaaaaa caagccaaaa caagaagaca agaccag 167

<210> 27043

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D10

<400> 27043

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ggccccctgg tgcagagggt gccagatgat ggccccggtg tacgcggact gcgccagcaa 120  
gtacccttcc gcggtcttcc tcgaggtcga cgctcgacgaa ctgctggaag tcgccaagat 180  
ctacggcgtc catgtgatgc cgaccttctg ctacatcagg aacggcgaga cgctcgagag 240  
ctttgctacc gtcgacgagg acgagctccg ggacgccgtc aggaagtacg ccgtcgttgg 300  
cactacgacg gctcctgcc 319

<210> 27044  
<211> 210  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-042-Q1-K1-D11

<400> 27044  
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gctgctctag ctctagccct agctagtagc tagccactcg gtcgtgtagt catcagcctt 120  
ctgatcgta cccatggcca ctgcctaggt ccagaccccg accgtcgtgg ctaccgagga 180  
agcgctgtg gtggagaccc cggcttcgtc 210

<210> 27045  
<211> 444  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-042-Q1-K1-D12

<400> 27045  
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acccccgctg gccgccgcac ccaggcgagg cgaggcaagg cgcgccccga acaacggaac 120  
caactgcacc gaccgagtca atcaatccgg cgagtgaccg agtggggtag gttgtgtgcg 180  
gcatgacgac cacgcgcgac cgtggcgccg gcggcggtac ggcgtcgagg gtcggtgacg 240  
gggacgtcga cctggggcgag ggctgggact ggggcgccat cccgcggctc ctctcctccg 300  
cctgcctctt cctctgctcc ggagcagagg ctgttttggg tgctgcgata agactgtaaa 360  
gcaactgggt gaactgtcca gaaacttgat caccagggac caaattacca ttggagagcc 420

atTTTtgGagc acaaccacca tcga

444

<210> 27046

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D5

<400> 27046

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tctgaagtcc aagaacggac cattcagctc ctgcatgctg cgcggattta gtggtaaata 120  
tacctacaac ggacagcagt tcgatgcgac tgctagacca gaaggagcat tgtatgacaa 180  
atgcagggga gagattgcc aaggcatgaa tctcaaggca ccgtgcaagg caaagaactg 240  
caccttcggt ggtgtgtgga atggggggagg tggagctggc caaacgaca tctaagtcgc 300  
gtcaggtttc tactaccttt gctta 325

<210> 27047

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D6

<400> 27047

tcggttctag atcgcgagct gccgcttttt gtttattttt tttaacaaac cattgatgca 60  
ttggaagttg tggcaaaata ccacgagggtg gttcaatata ttactaacia acaatgtttc 120  
gcc 123

<210> 27048

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D7

<400> 27048

cggacgcgtg ggcggactcg tgttatggat ctcgaaagat cagctcaagg ttgaagttac 60  
gtcagttttt ggatctgctg caccttcact caaagtgaat cttgtgcaag tgttgggatc 120

tgactctaaa gtcataccta gtgagaacat ggatcttcaa tacgaccttg acaacaatgt 180  
 ccattacttg gacattgctt tcattgaaaa ttgatgttgg gaaacactct attgtatttg 240  
 agattttact ttttgtacct ttagctgaga ttgtttttgc tactggttct agttacatat 300  
 aaagtgtttt tgtctcattt ttttataaaa gtttatatgg cttatatattt ttattttttt 360  
 tatgtttctc tttttctttt tatattattt ttattttttt tatttttttt tttattttat 420  
 ttttttattt tttttttttt atttttattt tctttt 456

<210> 27049

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-B12

<400> 27049

cgcgctccgag ctcatggatc cagtggatcg cgccgtgtgt atcgacagaa acgaatgatc 60  
 aaaaacgcgg gagtctgctg cccggtcacg ggagaggaag caggcttata tcgccgagct 120  
 agaatcgctg gtaacgcacc tcgaggagga gaatgccgag ttgttgagag aacaggaaga 180  
 gcggcaccag aagcggctta aagagctctt ggaacgggtg acgccagtca ttctgaggaa 240  
 aaaacccatca ggagatctta gaagaacgaa ctcaatgcag tggtagattg gagccaagct 300  
 cagtcgccgt ctctttacag ttattaacat agaatttgcc cctgtatgtc atttttctat 360  
 ttatatatgc gccaaactaag ttgtagtatc ttagctgaaa tagca 405

<210> 27050

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H3

<400> 27050

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 gccagggac cttgacgcc gccgggacag ggcagggcac agccggcact accggcatgg 120  
 ggactgcagg cactacgggt accgggttcg gcggcctagg accagcaggc atggacacag 180  
 cggcggcggc ggcggggggc ttgctcctcc tcccagaggc tgggctgtgc gctgccctcg 240

tcgcgctcct cctctccgcc atcgtgctcg cgtgaagcct tcacatgacc tcggaaacaa 300  
 caacctactg cctgcatgct agtagtagta gaaagcgctg ccccttttggg aggtgtatgt 360  
 agttcaggag tactctgatt atctatggag aaagggtggg aattattggg g 411

<210> 27051

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-H4

<400> 27051

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 gtactgtgta cacagagact gtagaatcac ccaggcccca cttggaatgt ggggatccat 120  
 acaatttcca ctggatagta ctgtttctgt gaaatagctg aaaagtccat ggggaagtctg 180  
 tgtaaatctt ttttatatat atatcttggg gggggcagaa cagaagcagt caaatatttt 240  
 ttttgtgcat atgtgaaatt ccagagttgt ggggtggtgag agataggata caatgctgta 300  
 tgtatttcag gaacttctgt aacacgagaa cattcatcat gtgaaaaaaaa tgtaactcaa 360  
 tgtgttggcc aaaaaaaaaa acnaatataa t 391

<210> 27052

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H5

<400> 27052

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 tcaccatcaa gcccagact gaccgctggg tggtccccga gaccaacact ggcatcattg 120  
 tccttgctga gggtcgctg atgaaccttg ggtgtgctac tggccatcct agctttgtca 180  
 tgtcctgctc attcactaac caggtcattg cccaacttga actgtggaag gagaagagct 240  
 ctggcaagta tgagaagaag gtgtatgtgc tccccaaagca ccttgatgag aaggttgctg 300  
 ctctccactt gggcaagctt ggtgccaaagc tgaccaagct caccaagtct caggccgact 360  
 acatcagcgt gccgatcgag ggtccctaca agcctgcccc ctaccggtac taggcagcca 420

gcacacggct tgcagc

436

<210> 27053

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H6

<400> 27053

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gaagcaaattg tgatgtcggc ggacaagatg atggaggaag caaatgtgac gtcggcagac 120  
aagatggagg aagcaaattg catgtcggcg gacaagatgg aggaagcaaa tgccacgtcg 180  
gcggataaga tggaggaagc agatgccacg tcggcggaca agatggaaga agcagatgcc 240  
acgacgtcgg acaagatgga agaagtagat gccacattgc cggaaaagat ggaagaaaca 300  
aatgtcacgt tgccagacaa gatggaggaa gcaaatgcc aatgtcggcg caagatggag 360  
gagaaaaatt ctgatccgaa agacaagatg gatgaagagt gacgtggtgg tgtaaccagt 420  
tttgaaatag cgtttagac 438

<210> 27054

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H7

<400> 27054

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ctgccctctt aacgccatcc gcgagaagta caggcatcaa aagtttgaat gcgtagcgaa 120  
cctaacttca ccggagtcc ctcggtcggt cttcagctga cagccaatg gcaccgattg 180  
atgagcaacg ttagcagcag ccgtagcagc atgttgcgtt aacattattg aagcatacac 240  
ttttaccccc caatgtatga ttgggctggg tgctgctatc gagctgctgt gtaccggcct 300  
ggcctttctc gactcgaaag tgagatgaaa actgacagag agatggctac ttggcttttc 360  
ttcagcatgt ttgacgtaaa aggttcaccc aggtgtaaac aacactgtgt gtaaggcttt 420  
ttgctagggc 430

<210> 27055  
 <211> 281  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-H8  
  
 <400> 27055  
  
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 taagcatctg tgctctgtgc gagcgatatg ctggcatgag cagctgcaat gccttgagac 120  
 cctatcttga acgcaaattc cttgtccgag ctcaagatgg ctcacgtata tgacacgtcg 180  
 atgagtaaca ttgacgtagc tcatgccaca tgtagcgtca acatggtaga agcatatacc 240  
 tctacgtcgg acaatatgaa agaactggat gtcacaatgc c 281

<210> 27056  
 <211> 91  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-H9  
  
 <400> 27056  
  
 cctaccacca ccgctcacct cggttgggct ttctccctc ttccgaacct gcttctcgcg 60  
 ccggattcog gattccctct gctctttccc t 91

<210> 27057  
 <211> 241  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-042-Q1-K1-A11  
  
 <400> 27057  
  
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 cgaccagta gacctaacgc gcgcggccca ggccgcgcgg ccgggacgcg acgccggcac 120  
 tcacggctcg tccccgctt ctaccaccgc acgatcgcg gcgggggaga gtccgccac 180  
 caccacacag cggggtctta gagaccaagc tacgaccggc agcagcatac ctcttaggca 240  
 c 241



<210> 27058  
 <211> 191  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-042-Q1-K1-A12  
  
 <400> 27058  
  
 gtccgtcaga tcgcgagcgg ctgttctttt ctttattcta ataccatct ctatctaatt 60  
 atatgaagtt ttttatcatc aacatagcca gctaaactca aatcacaaat tgaattaatc 120  
 aatacacaaa aaccccaaat ggaaccctca tctatctaaa ccaataatat ataatactac 180  
 ctgaacaagt c 191

<210> 27059  
 <211> 231  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-042-Q1-K1-A2  
  
 <400> 27059  
  
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 ggactttaac tttgggttat gttggaaagt acttgaaaga cttttcctgt ggtaattcta 120  
 ggcgtatgtt gctgtgctgg ttggggttta ctggtgaacc agagtttttc tatctccac 180  
 tatgaatttg ttacctcaag ttacctggat gttcactaat tttgttgga c 231

<210> 27060  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-042-Q1-K1-A3  
  
 <400> 27060  
  
 accacgcgtc cgtccacgcg tccgcctctt tccgcacccg cttctcgctt cggattccgg 60  
 attcctcttg gggtttccct aacgaaggta gccatggcgg ggagaggtaa ggcgatccggc 120  
 tcaggcgccg ccaagaaggc cacgtccagg agtccaagg ctggcctcca gttccctgtg 180  
 ggaaggatcg ccaggttcct caaggccggc aagtatgccg agagagtctg cgccggcgcc 240

cctgtctacc tcgctgccgt gctcgagtat cttgctgctg aggttcttga gctggccggc 300  
aatgcggcac gtgacaacaa gaagaccgc atcgatatgt gccacattca gctcggcgtc 360  
cgcaacgacg aaaagctctt ccgctttgct gggacgggtga ccatcggtag cgggggtgta 420  
atgccaaca ttcatt 435

<210> 27061  
<211> 158  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-A4

<400> 27061

cgcgctgaaa cattggatca tgcgatttga ctcaaaagtc tgggtggggga gcaatgtaga 60  
agctagctgc actaaaccta tcgaacgctc tcatggctac gcacagatct cactgaccct 120  
gaagactggc cgттаacaga actcacggat ctacccat 158

<210> 27062  
<211> 218  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-A5

<400> 27062

gctaaagaac tacagtgttg tctttatctt tcaactatta ttgtcatatg gtgatgtggg 60  
cacaaagtgc gctctaaagg atgagcatgt ttatgcatcg gcaaaatgtc aggctgaag 120  
ggagcttata ccttttctgg caaatgattg gcacatagta ctcataatta gtcagtggac 180  
caaaatgctt gaccatcatg aatgggcaat ggaaatta 218

<210> 27063  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-A7

<400> 27063

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aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaagt acaacaaaaa aaaaaaaacc taagaaaata acaaatcaaa aaaaaaaaaa 180  
 aataaaataa aaaaaaaaac caaaaaaaa aaaaatgaca cctagaaaaa aacgaaaata 240  
 acagaaaaaa cacaaaaata accaaaaaaa aaaaacataa aataaaaaaa acaaattaaa 300  
 caaacacat aaaaaacaaa aaaatcaaaa aagaaaaaaa atacaaaaaa ataa 354

<210> 27064  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-042-Q1-K1-A8  
 <400> 27064

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 ggcacctact gacacaagaa aacatggtat atttcatttc acggatccag gtggcatggg 180  
 cgtgatccat gattgtcaag agagaggttt ccattctcac aaggcaccac ttgatgggtc 240  
 gccaatatat gagcagtgtc cccatgtgta catggacacc gatataaagt tcgatatgat 300  
 tgatctgcga caaagatgac gaagctcacc tttgggttta ttttgcaacc tatacttctc 360  
 gcagttaaatt caattgctgc ccttattttt tcttagc 397

<210> 27065  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-042-Q1-K1-A9  
 <400> 27065

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 ctggaactaa ataccgagga gagtttgaag agagactaaa gaaacttatg gaggaatta 120  
 agcaaaatga agacattatt ctctttattg atgaagtgca cacactgatt ggagcaggtg 180  
 cagcagaagg tgcgattgat gctgctaata ttttgaagcc agctcttgct agaggtgaac 240  
 ttcagtgcatt tgggtgccaca aactggatg agtataggaa gcatatagag aaagatcctg 300

ccttgaaaag aaggtttcaa ccagttaaag ttccagagcc tactgtggat gaaacaatac 360  
 agatcttaag aggacttcgt gagagatatg aacttcatca caaactgaga tacacagatg 420  
 atgctttaat tgctgctgca cagctgtctt atcagta 457

<210> 27066  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-B10  
 <400> 27066

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 ttatacatgg gcggggacat cagagagcta ataatgaaac agaagaggca aggaagaaga 120  
 taagaaaatt caaggaatca gcttggaat gtgtttatct cctgtctgga gagcttttat 180  
 ctttgtctgt cacatataat gagccttggt tcaccaatac cagatatttt tgggtaggac 240  
 caggagaaca ggtctggcct gaccaaaga taaaattgaa acttaaggct gtatatatgt 300  
 atgctgctgg attctacaca tattccatat ttgcacttat gttttgggaa acaaggcggt 360  
 cagactttgg agtgtcaatg tctcatcatg ttgctactgt tggtctgatt gttctatctt 420  
 acgtgttcat att 433

<210> 27067  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-042-Q1-K1-B11  
 <400> 27067

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 gccgpcggcg gagaaggccc cgpgggggaa gaagcccaag gccgagaagc ggctccctgc 180  
 gggcaagtcc gcgggcaagg aggggtggca gaagaagggg aagaagaagg cgaagaagtc 240  
 ggtggagacg tacaagatct acatcttcaa ggtgctgaag caggtgcacc cggatattgg 300  
 catctcgctc aaggccatgt ccatcatgaa ctcttctatc aacgacatct tcgagaagct 360

ggcgggcgga gcgggccaaac tggcgcggtg caacaagaag cctaccatta cggtccgcga 420  
gatcca 426

<210> 27068  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H2

<400> 27068

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cgctactcca acggcctcat accaacagac ctcatgctgc ccagcccagc agctcggcgt 120  
gaagcagctg cttccgccct acctgggcgt ggacctgagc cccgatgacc ttctcaccgg 180  
cgtcagcttc gcgtccggcg ccaccggatt cgaccgcgtg actcccgctg tggtcagcgt 240  
catctcgatg gaccagcagc tcgcctactt cgacgagtac cggaggaggc tggaggacat 300  
cgccggcgag gccgagacgg cgcggatcat cgagggcgcg ctgttcctgg tgtgcgccgg 360  
caccgacgac gtggccaaca cctacttcac cagccgcttc cgcaacgccg aatacgacat 420  
cccgggc 427

<210> 27069  
<211> 390  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-040-Q1-K1-G1

<400> 27069

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cccgtcgagg cccgacgtga ccgtgttcaa gggacttgac ctgctgatga aggttggtgaa 120  
gagcatggcg cttgtcggca tgagcggctc cggcaagagt accgtgctgt cgctcactct 180  
ccgcttctac gaccgatcg ccggaagagt cttgatgatg gggaaggaca tcaagaagct 240  
taagctcaag tgtctcagga aacacatcgg cctgggtccag caagagccgg cgctgttcgc 300  
gacgacgatc tacgacaaca tncgtgatgg caaggacggg gccacggaag ccgaggtcgt 360

cgaggcggcc aagctggcga acgcgcactc

390

<210> 27070

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G11

<400> 27070

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ccttctttga aagcttccca cagtgcacaaa tccacagcag atactgtcaa aggatcatca 180  
tcagctctag aaactgtacc aaatgctgcc aatagcagca catcatcaaa gggtgcaaat 240  
aaggcacctg gtgcttccat aacaaaagga tatcttccat ctagcaagtt tgtgatgcac 300  
agtaataacc aagcaaaaag cagtgtttat caaagcaaaa gcatcaatct gaaagaaagt 360  
ggtagaagct ggcacagcag tgagaagctt aaagccgaga agtagctaaa tggacatggc 420  
gattctgaat ctaa 434

<210> 27071

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G12

<400> 27071

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gaatgggtcaa gacacagact caccttccaa ggaccccagg actgagaggg tggagtctta 180  
tgctgcaaaa ccaagcacga agaaatggtt ttgttggtgtg acatccagcc ctacgcaatc 240  
ctgaggaagg caattgcatg cgctggaaat actgccccct taattttcta tacatactat 300  
ccataagaca ctgtagaggt acccatggct ctctgggctc caggatgggt gtctcataaa 360  
actctggcgt gcatgtatgt atgggtgtgag agttgtcggc atacatttgc aaagtggact 420  
tctgcttgta attctaaa 438

<210> 27072  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-040-Q1-K1-G2  
  
 <400> 27072

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tcttccttct cgcgcgtcgc cagcaccagg ggcgcgctt ccccaggcc ctgcgcgctc  180
gccaccctcg ccagcgccgg cgccggcgcc cgctcccgcg cgctccgtgc tggccacacg  240
gactcaatcc ttgaggtgct ggcacaggac gatatgctga acgcaaagga gctgggtccaa  300
tgggagaatg gcttgtcatt caatgacata gcggctaggc aggggattcg catccgcaga  360
cacttgccgc cactgcctn cttgaaagag atagaggagg agctgggagc ccnccttaac  420
atcctagaga agatcatttg ggac                                         444
  
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<210> 27073  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-040-Q1-K1-G3  
  
 <400> 27073

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cagaagctgc tgatgttgca aaatctcagt tcctggcaac tgtgtcacat gagatcagaa  180
cacctatgaa tggcgtcctt ggaatgctgg atatgctttt aggaacagat ctaactatga  240
cacagaagga ttatgctcaa actgctcaaa tgtgtggcag agcattgatt aactgataa  300
atgatgtcct tgatcgagca aagattgagg ctggaaagtt agagcttgaa gcggtgcctt  360
ttgacctgcg ttctctcatg gatgatgttn gttacttggg ttcttcaaag tcacgggaga  420
agtgcattga g                                         431
  
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<210> 27074  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G4

<400> 27074

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tgccggcatt cagggaaacga gccgccctgc tcactaccat gtcctgtggg acgagaacaa  180
gttcacagct gacgagctgc agaccctgac gaacaacctg tgctacacgt acgctagggtg  240
caccgcctcc gtgtccatcg tgccccgggc gtactacgct catctggcag ccttccgagc  300
tcgctttctac atggagccag acacctctga cagcgggtca ctggccagcg gtgcccgtgg  360
ccccccaccc ggtgcggcac gcagcagcac gagaagggcc gggagtgtcg aagtcaggcc  420
cctacctgct ctcaggagaa cgtga                                           445
  
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<210> 27075  
 <211> 323  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G5

<400> 27075

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gtcggcatga gcggctccgg caagagtacc gtgctgtcgc tcattcctccg cttctacgac  180
ccgatcgccg gaagagtctt gatcgatggg aacgacatca agaagcttaa gctcaagtgt  240
ctcaagaaac acatcggcct ggtccagcaa gatccggcgc tggtcgcgac gacgatctac  300
gacaacatac tgtatggcaa gga                                           323
  
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<210> 27076  
 <211> 388  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3067-040-Q1-K1-G6

<400> 27076

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gaggaggctc ctgcatccga tgataagaag gatgataaag agtgaagggt gaaggcaaac 120  
aagggtcaaa tggatgccat tccattcatt tcgtttccaa gggtcagctt ccccgcaaatt 180  
tttcattgtg ttttctccga gatgaatgtt tgtgttcggt gaaatcagag tcgtcagtca 240  
tctacatagc ttttcttggg tgatagactg ttattttaag tcgcatgttt atctgggatg 300  
gctgggggtca gcatgtttgt acaattatatt ggagttgctt ttggaatgga cgcggtttga 360  
tgagttgcct acagcatgag atgtcaaa 388

<210> 27077

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G9

<400> 27077

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attgcctggg tctccatttg ggaggaatcc ggggaaaacc ctgacttgat gatgaccccg 120  
gaaatcagag ctcagaatgc cacaatttat tatgttgctt ttaaggtatt agtagatagt 180  
aactatttgg tattgatcta tcgaggctgc agcttgtctg taaacacaac tttccagctt 240  
gtataatgga tcaacggatc acctgatatg tgacggtggc cgaagtacta cgaactctaa 300  
tgacgttgga acggttaagga tattgtgatg gcctgttagt ttatgggagg tgtactgttt 360  
ggcattgatc tcgatgtaaa caaacaatgt tagccttgcc ccatggggaa gattaagcga 420  
gcaggatgtt a 431

<210> 27078

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H1

<400> 27078

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 agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaga 180  
 aaataaaaaa tatgaaatat aataattgaa atacatggaa aaactattat gaaaaagcta 240  
 ttactatgaa aaacaaagat tatgctaaaa aaagcatcat atgtatagca caaacattta 300  
 ttacactgat aataagtatg taatag 326

<210> 27079  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H11

<400> 27079

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 ctttggtgcc cataaacttg tgatgatggc tggcctgcat ggcattctat tcagggtcag 180  
 ttttgaccat tcgaatggag ggcagatggt gccacatgaa catttgcggc ttctcaagtg 240  
 cgacagccca cctttcatga ctgcagccga ttgacctgct gcacgtggat catccatccg 300  
 accatgtaaa tgtcgacatg ccactgtaca tatacgctgt ctaccggcta agttataggc 360  
 agacggaata aggatagctg 380

<210> 27080  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-H12

<400> 27080

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 agccatgaaa cccctcagc tgccggcagg ggagggggcc tcttgggctc acgaggtcaa 120  
 gcaggccctc cgtgagaaac tccggcgctc ctacggcgcc ggagctgctt tcgccacacc 180  
 ggaggccagg ccggccggcg aaccaagccg tggcgctgag tgccgaggct cggcgggcca 240

ggaccccata aggagagtca tgttcttggc tccctggggt cacacataag aacacaaacc 300  
 ggccggccga gatctgggca tgcaagcttg catggccatg tcttggtcag tcagatctgc 360  
 aaacaaccaa actgtaaaaa agaactggag cctgtcttga aatcatggag ctgctgctgc 420  
 ttgacccatg 430

<210> 27081  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-F9  
 <400> 27081

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 tcagaaagag tttcctgtgt gagccctccg gtccaaggca ttagagcttc catggaagga 120  
 agcagcacac tagcaagccg agtgactgca cctgtggtca tggaaatgga attggaacc 180  
 agtagcgttt tgtatttgcc tgttgattct tatatttatt tttaggaagt gggggaatgt 240  
 gtagcaacta ggaagcgagg gaacaacatc cagttgatgt gaagcattca tggcacagta 300  
 ggcaatagtg gcaaaggggt actatacata cacacttacg ggacgcacaa catatataaa 360  
 gaatggttga ttaataaact atctattttg gggacacacc cctaa 405

<210> 27082  
 <211> 266  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-E4  
 <400> 27082

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 acttggcact taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 180  
 aaaaaataaa aaaaaagaa acaaaaaaaaaa aaaaataaaa aaactaaata tataaaatac 240  
 aaaaatagaa aatctactaa taaaaa 266

<210> 27083

<211> 296  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-E5  
  
 <400> 27083  
  
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 aaccatatat ggtgttttaa gtgtttcgac atgtttactt ccagtgtttc tataacatta 120  
 ttgagacaga tatggagtgt actttgaggt agttttctgca attcaagtta tttggggatt 180  
 aataaatgat tttaccagag cttcatcagt gtaaagacgg agttcatata tcagaagcct 240  
 tatggagttc aagaacggga caaccgcagc ggaaataccg tgcttttgtc aaaatg 296

<210> 27084  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-E6  
  
 <400> 27084  
  
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 ttggtggggg aacaggetct ggccttggtt ccctcctcct agagcgcctg tctgttgact 120  
 acggcaagaa gtccaagctt gggttcactg tgtacccttc cccccaagtt tctacttcgg 180  
 tagttgagcc atacaacagt gtactgtcca cccactccct cctcgagcac actgatgtgg 240  
 ctatactgct ggacaatgag gccatctacg acatttgccg ccgatccctt gacattgagc 300  
 gccaaccta caccaacctc aacaggcttg tgtcccaggt tatctcatcc cttactgcct 360  
 ccctgaggtt cgatgggtgct ctgaacgtgg atgttaacga gttccagacc aacctggtac 420  
 cctacccgag gatccac 437

<210> 27085  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-E9  
  
 <400> 27085

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 caggctcctta tccagaatca aatgcagcag caacagcaac caacatccat ggctcaaaat 180  
 cagcagccag ctgccagcca gtcactgatc ctgccccagc agcagcaaca acagcaacaa 240  
 catcaacaac aaaagttggt acatcaacag cagcagattt tactgcagca gcaacaattg 300  
 cagcaacagc aacaaaatca gcaacagcta aataagatgg ctgcacaaat gccaaatctg 360  
 gtatcacatc agccgcaact gtctgatcag cagcttcaac tgcaactgtt acaaaaactg 420  
 caacagcagc agc 433

<210> 27086  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-F1  
 <400> 27086

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 aagaagaaaa acagaagcat aatacacgat tgttttcagg gagaacttga agttgttaag 180  
 gaggttcata ggaagcatat aatggaaaaa agagaggatg gcggtgagct gaatggtgag 240  
 gcaggttcag tggtgggaac tgcagatgga attgttactg aaacatccaa ggtcccatc 300  
 ctgatgctcg gtcttgacct gccaccttca cctcttttca aagacgccat ggagaaaaat 360  
 atcattccac aggtaccatt gtttaacata ctgaagaagt tcgatggtga gacagttaca 420  
 g 421

<210> 27087  
 <211> 238  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-F10  
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ggtgagccct acgctccaag gcattagatc ttccatggaa agaagcagca cactaacaag 120  
cagcgtgtct gcacctgtcg tcacggaaat ggaattgtaa accattaacc ttcagaattt 180  
ctccatcgct actaatactc atgtttacgc aacagtggaa tgtgtgatac ctaataaa 238

<210> 27088

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F11

<400> 27088

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ttcgtcggcg gcctcgctg gccacggac gaccactccc tccacaacgc cttcagcacc 180  
tacggcgagg tcctcgagtc caagattatc ctcgatcggg agacgcagag gtcccgcggc 240  
ttcggcttcg tcaccttctc cacggaggag gcgatgcgga acgccatcga gggcatgaac 300  
ggcaaggagc tggacggccg caacatcacc gtcaacgagg ccagtcctcg cggcggccgt 360  
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<210> 27089

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F12

<400> 27089

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gtacgaggtg ggcggcacca ttgggtggac cgtcatgggc aaccccgact acgccgcctg 180  
ggccagctcc aagcagatcg tcgtcggcga cactgttgtg ttcacgtata acaagcagtt 240  
ccacaacgtg ctggcgggtga gcaaggcggc ctacaagaac tgcacgcca ccaagccgac 300  
ggccacctgg tccacgggga acgattccgt cgctctcaac accacgggcc accactactt 360  
cctctgcggc taccggggcc actgcgctgc cggccagaag gtggacatcc gcg 413

<210> 27090  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F2

<400> 27090

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cagggtggagc tggtagcctg tcccgcacatt tgcaccttac aaagtctaag gcttgttcta 180  
cacattgatc cttgctatgt gtggtcacgc tcagacgaca gcaactgctt tagtggtctt 240  
gcagagtctg acaccggatg cacagagcgt attgagactg cttgatgagt attcagattc 300  
ataatgcaag gacgagagct tgccagtcaa catgtttgta tacgaaatgg tcg 353

<210> 27091  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F3

<400> 27091

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cgagataata agcagcgcgc gaagatgcaa gactgggcgc cgggtgttcgt ctgctggtg 180  
ctcttcattc tctgtctgcc gggcctgctg ttccagatgc cgggcaagtg ccggatcatc 240  
gagttcggca acttcagac cagcgccatc tccatcctcg tccacgccat cctcttcttc 300  
gccctcgccg gcatcttctt cgtcgccgctc ggggtgcaca tgtacctcgg ctcttaggcg 360  
gcgcgggcgc gccgtacctt ctcttctctt ctatctctct ctgctgcac gcgcgccatc 420  
cgtctcttct tttat 435

<210> 27092  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F4

<400> 27092

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aatgcacaac agccgaagct ttttgtgggc atgacctca tcctcatttt cgcagaagcg 180  
cttgctctgt acggtctcat tgttgaatt atcctttcat cccgtgctgg tcaatcccgg 240  
gcagattaag tgcactacca ttctgcaatt accgtactgt ttattatgct attctaagag 300  
aattgaaacc ctatgccctt gtctagttaa ttcttgctac catgtattaa tgaaacaatt 360  
tgtagctgaa ggaaagtgc acttccagcc atgttggttt tggcgggtgt aagcagaggt 420  
tatttattgg gttaagggtg gagg 444

<210> 27093

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F5

<400> 27093

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cgggcgccgc ggcctcgcg cagcgccacc gccagaaac catctttccc ggccgcgccg 120  
ctgagcccat agcccatatc ggggctcgt tcggccgaag cgcgctgtgt caaatctctg 180  
cgaccttgcc gccgccgtca tcattctgga gctcggattg atttcttctt ttgctgtgct 240  
gtcattaccg aactaaaaac agtttctgag agcaagcgtc acaattgcca tggaagctgg 300  
gagaatggat cagccttgca tggettctat caatagccag cctttcgtgg ctgatactga 360  
gccagtgaag aaagccagtg gggacatgcc t 391

<210> 27094

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-F6

<400> 27094



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 agttggcgtc tctctagttc agtagatggt aaagctaaga ttgctgaagg ccgtcttacc 180  
 gatgatgagc ttgaccagta ccattctttg gagaacaatc caattattat tgagctgata 240  
 gacgagccag cgatcccga tctggtagtg tattgaagaa tctgcgccag ctggacagaa 300  
 agctctgctt ccttgctgct tgctctggaa tctggagttg cctagtctag aatgctagta 360  
 agtcttgacc ctggtgttgt cccaactat gttctgatga tgtaggattt caggccgagt 420  
 actggtacca g 431

<210> 27095  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-F7  
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 tagtggtgca gtgggctggc gatcatgctg ctagcaaccg aaattgcaag acttgatatca 120  
 tacataaacg ctattgcttt taccgactga cacggaaggg tggagatcat gcatcaatgc 180  
 tattgctttt acaacctgac acagaagggt gtcattgttt tttgtaggag ttgccatctg 240  
 aactggagag ctacataggg gataggttct gatcggaatg tgaatggcac tagaaaatta 300  
 cttttactgt atctgcttgt gttgtcaaga accgaatgag gtgcctggca tccttgtctg 360  
 taccctgtac actaaaatgt ggagaatgtt ccctcggcag taatcggctg gacttgtaag 420  
 gtgccagtgt 430

<210> 27096  
 <211> 326  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-F8  
 <400> 27096

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tgtgttctgt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaata atataacaaa 180  
 aaaaataaaa aaaaaaaaaa ctaaaaataa caaatacaaa aactctacaa acataataga 240  
 ttacactaat ttatagattt gcataaccta tacttttctgc tctgaactaa aatcccatta 300  
 aaacagcaaa cttactgatt aatcaa 326

<210> 27097

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-E3

<400> 27097

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 gaggattcag aaggagctca aggatctgca gaaggaccct cccacctcgt gcagtgcagg 120  
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 atattctggt ggagttttcc tagtcacaat ccattttcct cctgattatc ctttcaaacc 240  
 accaaagggtg gcatttcgta ctaaagtgtt ccatccaaac atcaacagca acgggagcat 300  
 ttgcctcgac atcttgaagg accagtggag tccggcacta acaatctcca aggtgctgct 360  
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<210> 27098

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D1

<400> 27098

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 cgaagctgaa gcggatcagc aactcgacca cagcgaggta taggcttctc catgaggtgt 180  
 ggaagctgga tgaccagtag gacttgatcc taccaccacc atggttctcc cctctgtata 240

taggtttgtt tttttgcata tgattccggc tcatgtataa gatttcagtc tatttgttat 300  
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<210> 27099  
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<213> Zea mays  
  
<223> Clone ID: LIB3067-040-Q1-K1-D10  
  
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ccttcagcac ctacggcgag gtcctcgagt ccaagattat cctcgatcgg gagacgcaga 240  
ggccccgcgg cttcggcttc gtcaccttct ccacggagga ggcgatgcgg aacgccatcg 300  
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gcggcgggcg tggaggcggc ggc 383

<210> 27100  
<211> 429  
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<213> Zea mays  
  
<223> Clone ID: LIB3067-040-Q1-K1-D11  
  
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agaccagcga tgtcaaagct gtgtgccttt cgcacccgta cagcgtcact gccgacgaca 180  
tgaaagggtgc agtgagcgtc agtgtgctcc tcctcttctt ctatgctgct tcactagcct 240  
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gcccagaacg acacgaccac gccgtcgaaa gaagtgtacc ggttcgtgca tgtgctgcgt 360  
gaaagacacg aggtgagctc caagctacga ctgattgcaa tgacactgtg tggatcggat 420  
accggccag 429

<210> 27101  
 <211> 414  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-D12  
  
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 ctagaggctc acctcgccgg caaacctat gtgtctggtg actccattac taaggatgac 180  
 attaaggtct tcgccgcggt gccgtcgaag cctggcgctg agtttcctaa tgcttgccgc 240  
 tggtagcaga ccgtctctgc ggctgtagcc tcaagattcc ctggttaaggc tgttggtgta 300  
 aatctgcctg cgggatcagc tcttgccgca gctgctcctg cggatgaggc tgacgacgat 360  
 gatgaccttg atctttctgg tgatgaaact gaggaggaca tgaaagcagc tgat 414

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-D2  
  
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 ttcaccacct gcttttttgt catctgtgta cattgagtcg acggacaatc attttcttgc 180  
 ttcgagcagg cgagagcagc acacgagttg cagacacaac atggaattac actctgtata 240  
 taggtttgag tttttgcata tgaaatgcag ctcatgtata agatttcagt ctatactgct 300  
 atgatatggt acaagaatat gaggggacct cgttgaatct taataaa 347

<210> 27103  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-D3

<400> 27103

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gttttgggag cagatgctga gagcagggtg gcagagcgac cacggctgaa tctgaagcct 180

cgttcctatg taacaggaca gtctgatgaa attgctgtca aggaaaggcc atctctcttt 240

ggtggtgctc gcccagggg acaagttctc aaagaacgtg gagtggatgt tttggccagt 300

gatctcgaga agacttcacc agttggcaag cctaaaggcg aatttgcaaa ggttgagcag 360

aaggttgaag ctatgtccat taacccttct gttgaaagac atgagaagtt tgcagctggt 420

cat 423

<210> 27104

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D4

<400> 27104

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cggcgagcca tggcgggggc tctcctctcc tctccgcaca ctctcccag ccccacatct 180

cagtccccgt tccgccccag gagcagggga ccactccacg ctggggcagc gcgtgttctg 240

ccaccgagga ggagggcctt tgtgctcgct tcgtgctctc gcgagcctgc cgtaggaac 300

cgcgggttgg aggtggagag gaggcgcctt ctcatgtccg ggctcgtgct ttctttcgca 360

atcatgctcc ccatttcaga agcatatgct gtcattggaga ctgatgaaga cgtgaagatg 420

aacacacaaa ttgatgagat 440

<210> 27105

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D6

<400> 27105

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 caacttcgag atcgaggcga gccccgatgc gtcggttgct gacgtgaaga ggatcattga 120  
 gaccactcag ggtcagagta cctaccgggc ggaccagcaa atgcttatat accaagggaa 180  
 aattctcaag gatgagacca ctttgaaaag caacggagtt gctgagaaca gcttccttgt 240  
 tataatgttg tccaaggcta aggcacgctc gagtggagct tctaccacta ctgctgcaaa 300  
 agctcctgca actctggccc aacctgctgc cccggtgccc cctgctgcat cagttgcaag 360  
 aacaccaaca caggctcctg ttgccacagc tgaaacggca cttcaagtg cccaacctca 420  
 ggctgctcca gctgctacgg t 441

<210> 27106  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-D8  
 <400> 27106

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 cacaggctga caactatgag aagatcttct ctcacatgaa accaaacagt atccttggtt 180  
 tatctcatgg atttcttctg ggacatttgc aatcactcgg actcgattta ccaaagaaca 240  
 tcagtgtgat tgctgtatgc cccaagggaa tgggtccatc cgtccgcagg ctttatgttc 300  
 agggcaagga agtcaatggc gctggcatca actctagctt tgctgtgcac caggatgttg 360  
 atggaagggc aactgatgtt gctttagcat ggtcagttgc acttggttcc cccttcacgt 420  
 ttgctactac tttggaaca 439

<210> 27107  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-D9  
 <400> 27107

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ggcttgaggt ccttagctct acacttactg tactctagaa cagccgataa taccttgact 120  
 gctaagatcc atcgcttctg ctctcctcta ctatgagaca ctctcttgaa catcacgtct 180  
 taatcctaga tgaccgtaa gaccagtga catctccacc atggttctcc actctttata 240  
 tctgctacta gtaccgcata tcctctcggc tcctgcatta gagatcatgc tacttgcaac 300  
 cttctgttgc aagctgataa ggtgctcacg tcgaatctca acttatccac tgtttttaa 360  
 attattctag cta 373

<210> 27108  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-E1

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 gacaaggaga cgatcccgat gggggactca cgccagaaga ctaaacgct gaacagcagc 180  
 accaggacat aatagagtgg acctctcagc aattcctctg gttttccttc acgtgtcact 240  
 gattttacca gagcttcac agtgtagaga cggagtccat atatcagaag cctcatggag 300  
 ttcaggaacg ggacaaccgc ggcgaaatac cgtgcttctg tcgaattgct gaacaggggc 360  
 caagatgaca tgaacaggac gccggatagc acgtgcacaa ctttctgct caagctcttt 420  
 tcgatg 426

<210> 27109  
 <211> 196  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-E10

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 cgatctatat atatactgta ctgtagtact ctattatata tgtatgtgtg gcctgcagtg 180

cgagttgctt cgatcc 196

<210> 27110  
<211> 422  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-040-Q1-K1-E11  
  
<400> 27110

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gtctggcgcc ctccaaacca gccactctcg agaattccag ggcagtctcc gctatagttc 120  
accggactgt ctggtgtgcc accggaccgt ccggtgagcc agcggagcaa cggctaactg 180  
tcgccaatgg tcgactgcaa aagcgttctg cagtaaacag tgcctcaaca gaagtcagag 240  
cacagaagtt agagggcact gaactgtccg gtgcagctag aagacaaaca tctccaacgg 300  
tcaactgctc cgaaccctaa cagttgcgct gacgtggcgc gcaccggaca atgcacagtg 360  
gatgtctggt gcgcccacgc ccagcagcct ttgctaacgg ctaggaagtg gttgggggct 420  
at 422

<210> 27111  
<211> 395  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-040-Q1-K1-E12  
  
<400> 27111

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agttcagaag gttgccgctg ccattcaaca agatttgccc aaagtaatga ccaagatgag 120  
gttgtatttg caaaatccat ctactcggat gatcttattc aaacctatca agacaaatat 180  
agttgaggct catatacagc tgcattccct tctgaagtcg gagtactcta gtgaagaaat 240  
gcaatccatc ggtatgttgc cgatacctga cctgcagtct cagcttgaca gccttttgta 300  
gtttgcatac accatacagc ggcgctgctg tagtccatgt tgacgttgca atgcagttct 360  
ttcaagtaac gcaagtaaag ntgttaccac aattt 395



<210> 27112  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-E2

<400> 27112

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aggtctgtta aatgagaaga gcgatgtcta cagttttggg gtgctactac tggagcagc 120  
gactgggagg gatccagttg actatggtcg gcctgctaata gaggttcacg tggaggagtg 180  
gctgaaaatg atgggttgca ctagaagagc cgaggagggtg gtggatcctg acatggagtt 240  
gaaaccagcg attcgtgctc tgaagcgtgc tcttctagtg gcactgcatg gtgtagaccc 300  
agatgctgag aaaaggccca ctatgggtca ggttggttcg atgctcgagg cagaagacgt 360  
gccttcacgg gaggaccgcc ggagccggag aggccacagc agccacgcag acaacgag 418

<210> 27113  
<211> 420  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-C9

<400> 27113

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gcgtgcggcg atggcgctgt tctcggaggc tcccccgagg aaccgaaag ccggcgagaa 120  
gatctttaag accaagtgcg cgcagtgcc aacggctcac aagggcgccg gccacaagca 180  
aggtccaaac ttgaacggtc tttttgggag acagtcgggt accactgcag gctactccta 240  
ctctgcgggt aacaaaaaca aggctgtagt ctgggaagaa gacactttgt atgagtacct 300  
gcttaaccct aagaagtaca ttctggaac caagatggtc ttccctgggc tgaagaagcc 360  
gcatgagcgt gctgatctca tcgctacct gaaggaagca actgcatagt tcattgacat 420

<210> 27114  
<211> 282  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-B3

<400> 27114

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atccacattt atggtgccat aacctcccct tggcccaata gcatttgggc ctttgcatta 120

atgccgccat caaaggttac cataagcgat agcaagcatc ccggtctgta catgtaagtc 180

taactgtcag tttagctatc tcgtgtgtag ctccctgagt tttacaacat tagtcgattt 240

taccgggagt tgcaatacca tcatgtgtca cattgtttgt cc 282

<210> 27115

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-B4

<400> 27115

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ttgcccctcc ggaggatccc aggccacgca actcggagaa cggtctgacc tcgcagactc 120

cgggcaaaaa tgcacacgta agcaacttca agttcggcga ggccgacgag gacagcgcg 180

tgaagaccgc gaagaagatc cccaccaaga agttcaccga cctcgcgggc aatatcttca 240

agggcgacga cgaggcaccg gggacggcgg agaagcacca cctgagcacg gcgaagctga 300

aggagatgac cggcagcgac atcttcgcgg acggggaggc cccctcccgg gactacctgg 360

gcgggatccg caagccgncc ggcggggaga gcagcatcgc gctggtttaa cagcagggac 420

aaacaaccag atggacatag cag 443

<210> 27116

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-B5

<400> 27116

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ctgacaccaa tatactgtcc gctggtcgac aacgtacaac actgggaaat ccctaaacct 180  
tccca 185

<210> 27117  
<211> 407  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-040-Q1-K1-B6  
  
<400> 27117

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gctggctgag ttatcagtgg aacgtcttgc agatcttggg gctgatgatt ctggagtcta 120  
tgtccttctg tcaaatatct atgctgatga aggaatgtgg ggtgatgttt tgaggattag 180  
gaaattgatg agtcatgagg gaatgagaaa ggatattgga cggagtgtga ttgaagtgga 240  
tggtgaaata catgagttcg tgaatggagt cggctcatat attggttaagg atgaaatgta 300  
cttgatgctg tggaatttgt ctaacatggg ggcattctatt tgatgctact ttgtctacca 360  
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<211> 422  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-040-Q1-K1-B7  
  
<400> 27118

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cgagaaactg aaaccgctgc tggcaccctc aacgagcatg acgagctgcg tcggaggaaa 180  
gagaaatata tcagagtcga gcgttccata accgagctag atcttgacgg ggtatggaag 240  
ctgaagccga tactcgacgg gaaatcgatt atgggagtcg tgcaagtcaa gtccggaggt 300  
ccactgatag gaaaatggca acaacgtgtg ctgaagtggc agcttgcgca tccggacgga 360  
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tc 422

<210> 27119  
 <211> 278  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-B8  
  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aaaataaaaa aaaaaaaaaa cctaaataca attaactaac aaaaaaatat acaacgtaat 240  
 gaactaggaa aaccctgcta aaaacccaac ttaatcac 278

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 <213> Zea mays  
  
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 caagaggaag gagcagggga aaccgtgtga cagacccaac atcgtcaccg gtgccaacgt 180  
 tcaggtctgc tgggagaagt tcgcaaggta ttttgaggtg gagctgaagg aggttaagct 240  
 atcagaaggg tactacgtca tggaccccggt caaggctgtt gagatggtgg atgagaacac 300  
 tatctgtgtc gcggcgatct tggggtcgac tctcaccgga gagttcgaag atgtcaagca 360  
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<210> 27121  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-C10  
  
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 gccgtgccac aacggggtgg tgctcctacc ggcgcgtcac cgtggccgctc tgcacggca 180  
 accttgctgc cgtgctgctc gtgctccgtt ccctcacgtt ccccgcttcc ttcgcaccca 240  
 ccgctcccaa ccgcggggaa gtggtgcagt acacggagga gcagattagg tgggtggagg 300  
 agtcgatccg gattcgccgc gaggtgagc ccgtcgagct cgttctggcg gtaaagaagc 360  
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 a 421

<210> 27122  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-C11  
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 gtctcatgg cggtaagac gtactggacc gccgaagccg aggaggagca ctagcacacg 180  
 agtgacaccg agctcacttg aaagcgtgaa ccaagcctgt tctacacttc tactaccggt 240  
 cgagagggat ggcgtcagcg ttttgcgctt cagtgtagta tgtatgtccc ttttcacctt 300  
 ttctctagtt cttttagct agctacaatc agatgggaag gtaagggaga gttttgagac 360  
 gggggggggg gggttgttgg tcctctagtt gagatacagg aagcggtttt gtagcagggg 420  
 aagg 424

<210> 27123  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-C12  
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aatacaagat atcaagaaat tggttctgca agcactgcga agcaaagagc aagcactgca 120  
acaccaggat actgatttga actcaagagg cagctttata ctgaaacgta tggaggccta 180  
caaggacttt gctcgctgga gcgtaacat tgacttcgac gagagcatcc ttgtttggca 240  
cattgcaacc gaggtgttca tcaggaaatc caaggccaga catgcaaaag aactccttga 300  
ggctactgag gtactatcca actacttgat gttcttgcag gaggtgagat gtatgttatg 360  
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<210> 27124

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-C2

<400> 27124

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gatcaggttc tgtgggggca cttagtgtgt tttgtttcct tgaaaatgta aattttatgt 180  
ggtggcatgt tctcctgtat agtgagtatt gctattgtgc acagaattgg ggcatgaagc 240  
gtttcttgtc tgtgtttata aaatattctt caaacatatt gtcataaaa actactcaaa 300  
gtaagaatca aattgagtac aaaactactc aaagtaagaa aaatacgaag atgttaagca 360  
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<210> 27125

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-C3

<400> 27125

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ttgctatata actttagtgc ctatcattaa aaatatagtt tgtctacttc gatagcaacg 120  
gtatcaaaat ctgactacct tatgaagttt ggagtccttct catttctttt ggtagtgag 180  
ggaacttgta ggggggttcct ttttaagaat tgtcccagaa gtttcttgcc ataaagctag 240

gtgtatgttt caatttccct ggttctttga tgactagata tttttatttc aatgcaaaca 300  
 ggtagaattc cgaacttcat tttcagcaaa atgtgtacaa gcaagcagca ttctgcctga 360  
 actttctatc acgtactcca acaagaacat ct 392

<210> 27126  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-C5  
 <400> 27126

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 cgccgggtgga cgcgcacata cacgcggtag ctctcttctc aagcctagct agcccatcc 120  
 tgccgcgagg cggcggcagc gagaattgac gtgcgacgac gagcttggtc ttgctagcta 180  
 gagagcgagg atgtcgagcc ggaggccgctc gtcgcgtggc aacatctccg aggacgagat 240  
 caacgagctc atctccaagc tgcagggcct gctcccagc tcccgcgcgc ggggtccgg 300  
 ccaggcgctg acgacgaagc tgctcaagga gacctgcagc tacatcaaga gctgcaccg 360  
 ggaggtggac gacctgagcg accggctgtc cgacctcatg gccaccatgg accacaaca 419

<210> 27127  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-C7  
 <400> 27127

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 atgtatgcct ggaaagttag ccctgctttg gcatgtggaa atactctcgt gctcaagact 180  
 gctgaacaaa cccctctatc ggctttgtat atctccaaat tgttgcatga ggctggacta 240  
 cctgaggggtg ttgtgaatgt cgtttctggt tttggcccta ctgctggtgc tgctcttgct 300  
 agtcacatgg atgttgataa gatcgcatct actggatcta ccgatactgg aaaaattatt 360  
 ctcgagttgg ctgcaaagag caaccttaag acagtgcacac tggagttagg aagcaagtcc 420

cct

423

<210> 27128  
<211> 445  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-040-Q1-K1-C8  
  
<400> 27128

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tgggggcatg cctgatggct ccatgaatac aggcagatgcc gatagagggtg atggaagggg 120  
tgttcgagca cagatgccca cgccaatgca aatgcagatg tcacttcccc cacctccgcc 180  
tacacaacct ccatcaggct cgcagcaaac atttaacagg acttgatata ttttgttttg 240  
cacgaattga tggttcctct caaaattcca tgtcaattca ttgaggaaac tgtaatttta 300  
tcgtcgttgg caaaaaaaaa aaaaaaaaaa aacagaaaaa aacagatcaa acataaaaaa 360  
taaaacaaaa aaatgataaa aagcaacaca taaaaaaaaa acacatacaa ttgccccaaa 420  
aaaaaaaggg ggggccgttt taaaa 445

<210> 27129  
<211> 428  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-040-Q1-K1-B2  
  
<400> 27129

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cctaaggccg atggggatgg aggcgagatg cggtagacctg gccgtagctg ccggcgcccc 120  
cgtccggcgc ccgctacaac cgcgggacac caacgtggcg gcgtccacgg tagtggtcgg 180  
caaggctgcg ccgaagccca aagctcatcc aaagggggcg acgaggccca ctttgccttc 240  
gctgcgcgcg gcaccgctgt tcccgggtgg gaagccaacc ccgccgtga aggaccagtg 300  
cgacgcgtct gttgcgggcg tggccgaagt gtcgctggcg gaggagctcg agagggcgcg 360  
ggagcggcgc gctcggctcc gcgcggcgcg ggaacagacg gaacgggaga tggtagagccg 420  
tgccgaga 428



<210> 27130  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-H8  
  
 <400> 27130  
  
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 gtaagtgtat gcctccctgg tgataacaac tgctcctgta cgcacgcgaaa tgctgggtgac 120  
 cttccttaca gtgcttcagg catacttggt agccgaatgc ccgttttata cgagtgtggt 180  
 gattcctgca catgttcaca aaattgcggg aaccgagttg tacagaaagg tacgcagatc 240  
 cgttttgaag tttttaagac aggagatcgt ggttggggcc ttcgtagttg ggatccaatt 300  
 cgagcaggca catttatctg tgaatatgca ggtgaaatca 340

<210> 27131  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-A1  
  
 <400> 27131  
  
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 tcaagttgtt tctagcaacc ggctgtgagg atatcatatt ggctgttcgg ttgctcaaca 120  
 ttaagcagcc actcgtacca gtccttccca caaggtgtc tgagagattc tagacctgct 180  
 gccgctcaca tcgttttgat tacctgagaa gatgcctttg gaaattcaag atagtggagt 240  
 tgacattgtg attgcagcac tccagcccaa cctgaccact ttctttgagg catggcgacc 300  
 atttttctcc cgtttccaca tcattgtcgt caaagatcca gacatggcag aagatcttca 360  
 aatccctgca agttttgatc tcaaggttta caccaagtca gatattaatg gg 412

<210> 27132  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-A10

<400> 27132

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tttggcaatc gtttactgaa gccatatgtg gtggcggaac ctgaaattca ggaagaacag 180

ttcagtgatg agctggaatg cctggttctc gctagtgcg ggctttggga tgttgtggaa 240

aatgaggaag ccgtttccct tggcaaatca gaggacacgc cagagtctgc agctcggaaa 300

ttgacagaga tcgcttattc tcgtggcagc gctgacaata tcacgtgtat cgtggttcaa 360

tttcaccatg acaaaaccgg atgaaccatg tggcggccaa tttcagttgt accctgcttc 420

aagctatta 429

<210> 27133

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-A11

<400> 27133

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ggtctcggtg gagaatactc gacggactcc gcaaccggcg tactgtcgac gctgttcgac 120

ttgggcggcc tcgtggtcgg catcctcacg ggccacatct acgaccatgt ggacgcccgg 180

gctctgacgg ccgtgagctt caccttctag gcgattcctg cgctcttctt ctaccgcgtc 240

tacgggaacc tcttgctggc ctggaacatc gacctcatgc tcatca 286

<210> 27134

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-A12

<400> 27134

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tggaggtcct ggagaccctg gagggggagc tcgccgacaa gcctttcttc ggcggcggcg 120

ccctcggtt cgtggacgtg gctctggtgc ccttcacgtc ctggttcttc gcctacgaga 180

agctggggcgg gttcagcatc caggagcact gccccaggat cgtggcctgg gccgcgcgct 240  
gcagggagcg ggagagcgtg gccaaaggcca tgtccgaccc tgccaaggtg ctcgagtctg 300  
tccagttcct ccagagcaag ttcgggtgcc agtgatcgat cggaagcact gtgtgtgctg 360  
ctatgcangc cangtcgtg ctttgatcag ctcgatcagc ttcattgcca tgctagcggt 420  
gcatatcgc 429

<210> 27135

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-A2

<400> 27135

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aggagcccgc tgccgcgaag gccccggcgg ggaagaagcc caaggccgag aagcgcctcc 180  
cggcggccaa gtcgtccggc aaagaaggcg gcgacaagaa gggtaagaag aaggcgaaga 240  
agtcggtgga gacctacaag atctacatct tcaagggtgct gaagcaggtc caccgggaca 300  
tcggcatctc ttccaaggcc atgtccatca tgaactcctt catcaacgac atcttcgaga 360  
agctcgccgg cgaggctgcc aagcttgccg gctacaacaa gaagcccacc atcacctctc 420  
gggagattc 429

<210> 27136

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-A3

<400> 27136

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gcggggccgc gcccgacac cggcctcggc cgctccgca agcagcccgc gcgccccgcc 180

gcggttaaga tcagtgatcc ggccggggac gctgcagcgc tcgtgccgcc ctgcgccggt 240  
 tcgggtagcg aggagacgcc ggtgaagggtg acgcgcagca tcatgatcaa gcgtcccgcg 300  
 gggtagcccggt cttcgccgaa gagcgcggca agcacaccgn cggcctctcc actagggact 360  
 acc 363

<210> 27137  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-A4  
 <400> 27137

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 agatgcgctt tttccttcta ggtcgctgca gattgataag tttactccag ccgccccaaag 120  
 gttatcacia gatgataagg ctgctctgcc ttcttcagaa cagtcacata tatctccagc 180  
 tactagttct gaagctcaag gggcaactac taggaagggtc acaaccacca cctcactttc 240  
 agaggctgct gcagcatgga ggccttcaag tgcctctgtg ttaccacac caagatcaac 300  
 cgggccagct gcttcacata ttcaaaacttc cacattgctt tcccgtctta tgagtgaagc 360  
 agctgggaga aggccagtaa atgaccttc attttctgcc ccatcttata ctccacagac 420  
 ctaccggaat gcaataattg gt 442

<210> 27138  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-A5  
 <400> 27138

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 ccccaggtag cggcgtcgag ttctggcacg gcgcagagcg cgctgggtgg ctaaataagc 180  
 agggcgagta catcaagacg tggaggcggc ggtggttcgt gctgaagcag gggaggcttt 240  
 tctggttcaa ggaccctgcg gtgacacggg cctcggtgcc ccgcggcgctc atccccgtcg 300

ccacctgcct cacagtcaag ggcgccgagg acgtgctcaa ccgccagttc gccttcgagc 360  
tctccacgcc tgccgagacc atgtatttca ttgctgactc cgag 404

<210> 27139  
<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-040-Q1-K1-A6  
  
<400> 27139

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ccccaggtag cggcgtcgag ttctggcacg gcgcacagcg cgctgggtgg ctaaataagc 180  
agggcgagta catcaagacg tgtaggcggc aggggttcgt gctgaagcag gggaggcttg 240  
cctgggtcaa ggaccctgct gtgacacggg cctcggtgcc ccgaggcgtc atccccgtcg 300  
ccacctgtct cacagtcaag ggcgccgagg acgtgctcaa ccgtcagttc gacttcgagc 360  
tatacacgcc tgccaagacc atgtatttca ttgctgactc cgataatgac a 411

<210> 27140  
<211> 397  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-040-Q1-K1-A7  
  
<400> 27140

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gaagccgacc ccaccgacgt acacccttc ccaaagcct ccgacgcca agccgacccc 120  
accgacgtac accccttccc caaagcctac gacaccaag ccgacccac cgacgtacac 180  
tcccacaccg aagtcgccg ccaccaagcc gtccacctac actccgacgc cgccggtgtc 240  
tcacacgctc agcccgcgt caccatacta ctagaaagcg atgcctacca taccacactg 300  
ctgtcagtct ctggagcatt taggtggtct ggatcaatgg aaaggtggg tcctagtcag 360  
gcggcaaaga tgagctggtg atgggtatga tgatgat 397

<210> 27141

<211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-A8  
  
 <400> 27141  
  
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 acgggctgat caacgcgacc ctggggacgc cgtccaggac gccgtgctgc acgctgatcc 240  
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 tgggcatcaa cctcaacctg cccatcaacc tcagcctcct cgtcaactac tgcggcaggc 360  
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 aggctaaata a 431

<210> 27142  
 <211> 125  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-B1  
  
 <400> 27142  
  
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 gagaaaaaaaa aaaaacaaaa aaaagaacaa aaactacaa aacaaaaaaaa aaaaacaaca 120  
 caaaa 125

<210> 27143  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-B10  
  
 <400> 27143  
  
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gttaccagat ggtgagtgct gtgtgtgtat atgacgggat tgatgcatct gtgaggtgta 180  
 ttgctccggt ggcggtacta caacacagtt ttgcataccg aggagcagag gcatgtacag 240  
 cgtcatgtgt taaaattgct ccgaaatatt attgagtttt gtagaaaaaa aaaaaataa 300  
 aaaaaataaa ataaaaaaat ataaattata aaataaaaaat 340

<210> 27144  
 <211> 220  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-040-Q1-K1-B12  
 <400> 27144

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 gaggcaactg tgggtgcggc tccggctgca agtgccgcaa cggctgcgga ggggtgcaaca 120  
 agatgtaccc ggacatggct gagcagggtga ccaccaccac caccaggct ctgctcatgg 180  
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<210> 27145  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-039-Q1-K1-H7  
 <400> 27145

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 tcttcagcgg cggcgcccgga cccaacacca ccaccaccac gacgactatg gaaatggagc 180  
 cgctgtatcc gccccatgag gctcgaagtg acgcagatat caggttgaga agcccacagc 240  
 ggaaggcacg tgaggtagaa gaagccagcg tgggtactcaa ggtccacac cgaaagaccg 300  
 ctgttgccgc tcatgtatca tcgcaggtag aacagccctc gctaccttcg cagcaacctg 360  
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<210> 27146

<211> 371  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-F9  
  
 <400> 27146  
  
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 gggttctaagg gacctgtaaa tgcttggtgcc ctatattgtg tgccttcaca tattggggag 180  
 cttgaagcat cgacaagtta ctagtcatctg cttacttata taagaacata agtagtattt 240  
 gctattgtca agtgtgcctt gcttgattca agttgtgttt tcgtatcatt attattattc 300  
 acggtcacgc tacgtgtatg gcttgatgg gttattgccca acttaataaa agcacactct 360  
 gtttgcctat t 371

<210> 27147  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-G11  
  
 <400> 27147  
  
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 aaagatgcaa tttgctatat aaaagccgca ttgtattgct gcaaaaggac tatacagtgc 240  
 tatcaggaca tagcgcaatg cttgaggaac tgccgtaaaa atgtctaaca agaggctatg 300  
 ctttctccaa ctgtagatg gagatcataa agatgttacg ttagacctaa tcatgcatag 360  
 accggaggag aaatataagc taattagccc attcaaaaa 399

<210> 27148  
 <211> 452  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-G2



<400> 27148

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ggagcatgac gggcggtccc tactgcccgc cgtccactg gcgccgtaac accgtcatcg 180  
ccatgttcgg cgtcttctc atctgcatcc ccatcgctat gaagtccgca gagctcgagc 240  
aacgcccgca tcaccagtc cggccaatcc catctcaact gtggtgcaaa aactttggta 300  
agaaggaata ctgaaggacc cttcaactag catgaagtgt gtgcaccttg cttttgcctt 360  
ctttttgtgg aaacctgtgc ctagccataa tgctggggta agtgtttaga gcatctctgg 420  
aatgcttctc gtagtatctt ttggatcttc tt 452

<210> 27149

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-G4

<400> 27149

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tagcaggctt tggcccggta cacacgcgtg caagatgggt caacgatatg gtcaacgtgg 180  
tattctctc gaaggcgttc gtcggcgggg ctgtggcgta tttctggac aatacgctgc 240  
atcggcgaga tggcgccgtg aggaatgacc gttggcacca tttctgggac aggttcaagt 300  
cctttaaaga cagaccgcg caaccgagga atttctactt cttttccatt caaccttaaa 360  
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<210> 27150

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-G5

<400> 27150

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ccctaaacct ggtgcctagg tatctctgcc ggcgacgagc acctgccagc tgcaggggta 180  
tgggaatgga ggtcgttggg gctgaagcag caccagcaga gatcaaagta tctgatgatg 240  
tgaatctatt ccaatagaag gaaagcgaag caactgcaaa agaactgag gaggcagctg 300  
ttttcgggtc agagataact accaatgtca ccgatctggc accttcaaag gatgtgaagg 360  
atgagtggcc tgaatctaag cagacttatg ccttctactt catcaaggtc cgctcatttg 420  
aggatcttaa actgagggca aaaatcgag 449

<210> 27151

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-039-Q1-K1-G6

<400> 27151

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ggttacttcg tctggtcgtc agtttgaacc gcctggcatg cacatgatct atcttccata 180  
ctccgatgat attagatata ctgaggaagt tcatgtgact tctgatgatg caccgcgtgc 240  
aacagatgaa caaatcaaga aagcttcgaa tatattcaaa cgtattgatc tgataaattt 300  
ctctgcatgc caatttgcta acccagcttt gcaaagacac tatgggatct tggaggcctt 360  
agcttttaggc gaagatgaga tgctgatata aaaggatgag accctgcctg acgaagaagg 420  
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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-G8

<400> 27152

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gcgcggcccc ctgctgggcg ggtggaaccc gatccctgac gtgagcgact cgcacatcca 180  
ggagctaggc ggggtgggcg tggggcaggc gaagcaccag aagctggccg ccgacgggct 240  
gcggttccgc cgcgtggtgc gcggcgagca gcaggtcgtg tccgggatga actaccgcct 300  
ctacgtcgac gccgtcgacc ccgcgggccc caccgtgcc tacgtcgccg tcgtgtacga 360  
gcaggtctgg acccgcaccc gtcagctcgc ctccctcaac ccggtgcccc gcgccccctg 420  
aaaccatacg gacac 435

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<212> DNA  
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<223> Clone ID: LIB3067-039-Q1-K1-G9  
<400> 27153

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ttcgctacgg gcagcaccac agcgcgcgcg acgctggcat cgcgcacttc gtgccagccg 180  
gccgcgcgcc gggcgccggc ccgatggatg ccgctgcgct gctcgccgcc ggccctgggc 240  
ctcaggggag gaggcgttc tcggcggagc gccacgctac ggggtggaagc taagaagcaa 300  
actttttctt catttgatga gttgctggag aagtctgaga agccattgtt agttgacttc 360  
tatgcaactt ggtgtggtcc atgccaatac atggttccca tacttcaaga agtgagtgag 420  
aag 423

<210> 27154  
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<223> Clone ID: LIB3067-039-Q1-K1-H11  
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cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg agaagggcgt gggcaagtcc 180

gggaagccgc tccactacaa gggctccacc ttccaccgcg tcatccccga gttcatgtgc 240  
cagggcggcg acttcacccg cggcaacggc accggcggcg agtccatcta cggcgagaag 300  
ttccccgacg agaagttcgt gcgcaagcac accgcccccg gtgtgctctc catggccaac 360  
gcggggccca acaccaacgg ctcccagttc ttcatctgca ccgtcgcgac cccttggtc 420  
gacggca 427

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<211> 383  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-039-Q1-K1-H12  
<400> 27155

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aatgaccaga agatccttga ttctctaat ttccaggttc ttttgaaacc tattgtctcc 120  
cagttcgctg tggaaccacc aaaatctgtt gaatcagttc ttgacgctcc atcaattgaa 180  
gaagtagatg aaactataat tctgtgcttg ttccaaatgg cattaactgc acggtcagat 240  
gttcttttga agcctcttaa ccatgaggtg ctgatgcaga ctacgagtga tgaaattcgc 300  
cccaaaatgc taggcctgaa cgttatcacg tacatgggtc aacatctgaa tgaggagtat 360  
gtcgctctag taccacagac cat 383

<210> 27156  
<211> 411  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-039-Q1-K1-H2  
<400> 27156

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ggccaatcct ttaaactttg tattttatat atatgcaggc ggaagcgctt gttaaagccc 180  
aagatgatct tagagaaact acaggtcact tgggaatgac attgattaag ctggcaaaat 240  
ttgaaagaga gcaggcaaca tgtaattccc taagaagacg tgctggtgaa atccataatt 300

ttgcaaattc tgtttttaaag atgagcaggt cacagataaa attaaactct gaaatgggtga 360  
aacacctgtg caggatccat gaatacttgg agatgatgat atcagtttat c 411

<210> 27157  
<211> 396  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-039-Q1-K1-H3  
  
<400> 27157

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acttatttgg gtcagttggt gacgattatc atcttttgat ttgggacctg cggctctcccg 180  
cccctactaa acctgttcag tcagtgggtg cgcaccaggg tgaggtgaac tgcttggctt 240  
ttaaccggtt caacgaatgg gttgttgcaa ctggttctac tgacaagact gtcaaattat 300  
ttgatcttag gaagattgat acttctctgc acaccttga ctgtcacaaa gaggaagttt 360  
ttcaagttgg atggagtcca aagaatgaaa ctgtac 396

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<211> 123  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-039-Q1-K1-H4  
  
<400> 27158

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tct 123

<210> 27159  
<211> 443  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
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<400> 27159

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catgagagaa gagactggca acgattttcc catgctgtga ttggagagga atctgaaaga 180

acttggcgtg aaaatgcaga catgtcatct catgagggga cagcagttga agatgataat 240

aacgatcatc ttccagaagc aaatgaagag tcaaccagtg ttgatcacct tctgaagga 300

cttgaagggt ctatcactga tggtagtctt cctgaagcgc aagaagatca gcatgacagt 360

gatcatcttn ctgcagtgtg tgaagagctg attggaataa tcactttcaa gaatcacatg 420

gggaatggag aaaagatgat cgt 443

<210> 27160

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F8

<400> 27160

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agccccctta tgccatcccc ctggtctcaa cagctacact gtgttctctc gtcctcacc 180

ctgggtgctc tgtaccgtcg taccgatgct aggcatggac ggacgtcaaa gtgacttccc 240

ctcaactctc gcgggtggcc acatataaat tgtccctaaa taaaacgacg ctgcaattga 300

cgtcttcaag ggaatcgaca aacccttttg tggagcaggc catacaattc tccgtagcag 360

ctgctaaagc gaccattatt gataaggaga ggaaggatgt agtagataag ttactgctgc 420

aaggtctgaa cattacaatt attggtcaca atgatttct 459

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<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D7

<400> 27161

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aataaaaaaa ataaaaaaaa 240  
 atatatt 246

<210> 27162  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-039-Q1-K1-E11  
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 ggaaagggag tagggaaaaa aatgccttga cgtttggttt ggtctccgtc ggttgttagg 180  
 gttggaagga tgtgcaaagc cagggtgtga ttattgggct aagtaagtaa gtataatatg 240  
 agtggtcggt cggttacctg gagcttgatc gtgatagtat atggatatga atttcctctt 300  
 ctcttctttt ggctgagcca tggatgggtg gcttgtaaca aggatggcct gatgtcagta 360  
 tactacccta ccataccatg gagcatattt ggagattcag tgggtttcag tc 412

<210> 27163  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-039-Q1-K1-E12  
 <400> 27163

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 ccacaggggg gatgtttcga agcacaaggt tgagcatgcc ctgacgaaga tgtgcaagga 180  
 gggcccatat tggcgactg ttgctggagt ttatgtgatc atggtgtacg gcgtacaaag 240  
 gatccgtatc cgcagtgact ggaagaacgc gattatcgga ggcgccttgt ccggtccct 300

gatctcctgc tccagcaaca acgacagatg caatgtc

337

<210> 27164

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-E2

<400> 27164

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gattgatgtt tagacacagt tcgttactta caacaagcca acaaatggaa acagattgat 120

caaattgtct ccactactta ttgaaagggga aatgtgccct tgggctatatt ctaagtattt 180

tgggtgattaa gtgtccaaca caagtgccta agtggttaaata tataccaagg actcaagaag 240

tgaaaatcaa cataaaggta tttttctaag acttagtact ttgtttt 287

<210> 27165

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-E3

<400> 27165

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gacgcctgtg cggatgaatg cggtcgtgta ctgcgtgtcg ccctttcagc ttaagggttat 120

gcccggggtg tggaaggaca tcaccaccaa gatccaccac aaggtcacct tttacctgga 180

tctccgtcac gctcctactc accctcgtct tttgcaccta ctaatacgcc ttgtggtaca 240

aggagcatga gaagctttcc cacagatatt aaatgcgctt tccttgacag acagcactcg 300

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<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-E7

<400> 27166



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aagctttttc caaaacaatc tgttccagta aataaaccat ctactctgcg tactgaagat 180  
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tcacggcgac aattatttga caaggtaa at gagctgattg ccggtgcgaa accgtcaa at 300  
tgccaaatat ctggggaccc aaagaatctg gaggccagcc tgcattgatct ccatccagcg 360  
tcttgggtatt gtgttgcatt gtatcccata taccggatac ctgatggaaa attccaagct 420  
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<210> 27167  
<211> 439  
<212> DNA  
<213> Zea mays  
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ttcgctgggt tctttgtcaa gtcattcttc atccctatca acaacatcat cgctcggtcc 240  
ggctgatccg taaacctcag gctagtgggt gcaggagtgg acaatggcgt cactaccttg 300  
gaggcagcac cgttttcagc tctgatttcc gcaaagcaat tccttttagga cttgtgttgt 360  
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ttgtacctgg tgtcgaata 439

<210> 27168  
<211> 406  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-039-Q1-K1-E9  
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agcctgagcc gtacccttct gacccatata tctcattcac ctacgatctc attccatata 240  
cagagccgta tctatactcc tactgcttct tcttcccata cccggatccg aatccagatc 300  
catagccacc atacctccta cgcaacagge tcgttctctga atccgtaacc tcttccgtaa 360  
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<210> 27169  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F10

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tgcaagctac atcactggac aggtcctcac catcgatgga ggaatggtaa tgtaaggctt 360  
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tgt 423

<210> 27170  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F11

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 gagtggtcgc cggtgtgctc ggcattccct ttgaagctcc tagttgcgaa gcggtgctgg 360  
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<210> 27171

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F12

<400> 27171

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 atgccaagaa tgtcaaaatt tctactggag cacacaatga gatgaatgat cgtgagttgt 180  
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<210> 27172

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F3

<400> 27172

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 tctcgcacgt gccgcttctc ctcttggtt cgatatgttg tattgtttcc atgtaaattt 240  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-039-Q1-K1-F4  
  
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 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-F5  
  
 <400> 27174

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 agctaaaaga ttcacacctt ctgtatcaag catccattca ttagctgctt tgaaaccgtc 180  
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<210> 27175  
 <211> 432

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-F7  
  
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 accacactga agtttgtggt gaatcgaaat tctctgaact tgggtgcggat tcgctggaca 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-D5  
  
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 aaagggaat cactttaag gacaaaaaca acgctttgac tggtaaaacc cttaacgata 180  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-C1  
  
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 ccccaagccg ggcgtcgagc gcgttggcgt ctccgtcgac ctctacaacc agggatccgc 240  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-039-Q1-K1-C11  
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 gagaggtgcc tagggagtcc ctgttattta taattccagc atttggaggg actgtttcat 240  
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 ccatttgcaa taatttatta caccaaagtt taactatata gacggagaca ttgtgtacca 360  
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<210> 27179  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-039-Q1-K1-C12  
 <400> 27179

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 cggcgcggcg ggcaagatgt ttgacgatca agacctgggc ttctttgcca atttctggg 120

catcttcacac tttgtcttgg ttattgacga ccacttcgtg atggcagacc cgaagtacga 180  
 aggaaactga tgtcctctag tgcaaagatc ctattatctg caggccgaaa tagggctata 240  
 ctgttagcta atgctagtga gatcgcttga cactttgagt gcataatcatg gaagctggac 300  
 atgcagttcc tggcattttg gttttgcccc tgttttaata tgctgaatta gtaaatacctg 360  
 gagaattcaa aagcgttttc aagtactgca gttgggtggtt gtttctggtc ctagtgtatg 420  
 catgc 425

<210> 27180  
 <211> 305  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C2

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 gttccaccac cggggcacct cggagatgct cctcaagggt ggctacaaca actgcgtgcc 180  
 catcacgccc gagttctgca tggcgaacat ggccgggccg agcaacgagc agatcggccg 240  
 cttcctgttc ccggactggg accagcggcg tctctacgcc ttcttcgcct agaaggatgc 300  
 tctct 305

<210> 27181  
 <211> 383  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C3

<400> 27181  
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 gggtcggcaa agttcaatcc attggcaaag gcgtcgacaa cagcatgccc aaggtgatac 120  
 gacgcttcaa acagaaaaat ctggtatagt atttgccctgt gctgaggcct gcaagccac 180  
 caatgctgct tccaaccttc attgttccaa gcaaccaagc atgtgttttg tttttcttcg 240  
 tcgtgtcgag tatgacggcc cctgacaggg taagtgtttg cttagtgttg agagcaaagc 300

tagcacataa gaaaaaatat tttggtatgg gtgggggggca tgtatacagg attgtagcgg 360  
attctgattg ctgaatttgc acc 383

<210> 27182  
<211> 392  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-039-Q1-K1-C5  
  
<400> 27182

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gctgtacacc aagtgagga gccattcttt gcaaggcata ataaagtatt attatcgctt 120  
atagcttaca gttgcctagc ttccagatgc ctgtacactt cattaaatcg agcacttgca 180  
aaaaagaaag ccagagagag gaagacgaac atcactagtc agcactagat tgtgtgtttt 240  
atgttgagtt gcaaattcat gtcttgattt ttgtcctgcc atgaaccgtt aggcgatatt 300  
gtattggaaa ggatgcttcc gctattgttt cactatatac cgcctcagag tagaagtttc 360  
cagttaaaat gaactctgat tagttcgtcg at 392

<210> 27183  
<211> 385  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-039-Q1-K1-C6  
  
<400> 27183

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gttcgacaac gctgggtgca tgatgagtgt agatgataca ttgatgtgct cgttccaaat 120  
attgaagcct gcaaggaaga tgatgggtgg ttcaactaat aacaaatctg gcttcaagtc 180  
attcatggga tgggtgacaac ggctgatgg tgggcacgct gcgttcgaca gggggtacat 240  
cttacagcgg ctgcaactaa caggcatatg cattttcggg gaaacctgct tgggccttgg 300  
aagggcaaag cagatgtaga actgtgcac ttccatgttg gattaacact tgatgtaatg 360  
tattgttatc ggtttttaaat aaaaa 385



<210> 27184  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C7

<400> 27184

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accatgaatg cctgcagttt gcttgcgtcc atttcgctgt cactctgctg cactgtcgcc   60
gtaccatgta gtattatgat gcatgggtgct ccagtttgtc attagtccat gacaaggggc  120
tcggttagtc cacagcccta gaggctgcag ctgcacactt cccttctctg ttttcgccgg  180
ttaaactttc cccacttgtt gctggccttc gaatctgcgg tttgtttgag cttagcaggg  240
aagcgaagaa caggaagca aggacatgga tgctttcagt gcagtgatgg acaaggtaaa  300
gagccacca gaaatgatgg agaaggtaag tgcagtgatg gacaaggatga agaagagcca  360
cccagaagcg gtggaaaaag tcaaggacca ggtgaagagc cttgctgacg ctcttcacct  420
gcggagacat ggatccaaag ataaagaacc                                     450

```

<210> 27185  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C8

<400> 27185

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acagaagatg tggatggtac tgccgaggac atatcagcaa cttctggaat gaagcgtaag   60
gtgaacgaaa tattagagac aaaggagAAC tttgatgctc tcgaaaatct ttcgggtggt  120
gattccagca gcgctcaagt tgttgaagat gacaatgacg atgaccttgt tatgtttgat  180
gaggacccaa ggcaaagtaa gaagaagaga ttgcagtagc atcctgctgc ggcgataaca  240
gctcttgact cccggcatcg tggctaacac attgttcgat cgtaacatct ttgataactt  300
atztatgcgg ttatgtacca agttgatggt gaaacattag taacaatgcc cagggcacct  360
tttggcctca gatagtcaga taccctgtag gggttgaatt tgtaggaatt aggaacaaga  420
gcaactaatg c                                                         431

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<210> 27186  
 <211> 325

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-C9

<400> 27186

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cccaactcgtc cgaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa ggaaaaaaaa 60
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaacata taaaaaaaaa 120
atagataacg caatccaaaa ttacaacgat ttacaactcc taaacaggaa ccaaaactga 180
attaaccgaa cctcttaaaa aaacatcaca tactggaaaa aaccaaatct ttaccaaact 240
aaaaaccctg gcaaaaaaca ccttaattac cagctttaa aaaaccaaaa agaccatac 300
ccatattcat aacaaacatt aacca 325

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<210> 27187  
 <211> 295  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D1

<400> 27187

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tagactgttc aatgcttgct atggatgatg catactttct attagctcca tagttccatc 60
cgtctgtgga atcacttatg tgaggctcct ccacctattc tgcactttt tatgttatca 120
tcacctcttc ctgtaacttt cattgaattc atagataaat atactcctat accttatatt 180
attaatctaa tgtatttact ttttctttt tttttcacac ttttttttc tttttttaat 240
aaatgcatta atttcattgt ctgaatactc tttttttata actttaattt tattc 295

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<210> 27188  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D10

<400> 27188

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attggataca ggtctcgtat gtccttgaca ctgaagactt ctcgtcccgg cttcctaaga 60
gaaggaaaat acttcggagt ggaactgtgt ctgacagtct ctcagatttc aacagtatat 120
gctgcaaaag tgcaccgctt caatatgttc ctatccaaag cataagatca ttagtcctac 180

```

aaactgtcat catcattgta tctaaacctg gagatattgc tgagacccca gctgctttgc 240  
 ttcttcaacc ataattttca gcagttggca gatggtgact ccatcgacat tcagtctcat 300  
 aacgcccttt ttgaataaca aatggagaga tctatagggt aaatacagca caacgaatcg 360  
 agcatgtaag ccacaacact catctctgat gtgcggatag atgtgtata 409

<210> 27189  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-039-Q1-K1-D11  
 <400> 27189

aataagccca gattcgttgc gcttggttgg aatgcgaact gcttcgatgg gctttgaggt 60  
 cccatattgc agggcacatg ggactggaaa gtgggagtgg aaattcgaga acaagccggt 120  
 aaacatatac tatgaggaac atgagcagga ggttgctgag aatatgaaga acattctcat 180  
 gatccctacg atctctgatg tgagcactgt ggaggagtgg aggggtggtt ccaaagatat 240  
 tgttgggcgg aaaggagaac ttggctaccg tggttacaatt gtcgattggc ctgggtcttgg 300  
 ttattcagat aggccatcac tgaactacaa tgctgatgtg atggagagct ttctggttga 360  
 actaatgaat tcaccaaaca gtccagtcgc aaatgcagat gatgaactga tcatt 415

<210> 27190  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-039-Q1-K1-D2  
 <400> 27190

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 gagcgcttgg acgagctggt gcaggaggtg gcgcgcctgc aggccgacaa cgcgcgctg 120  
 gcggcccgcg ccgccgacat cgcgtcccag tacacccgcg tcgagcagga gaacaccgtg 180  
 ctccggggcc gcgcgcgca gctcggcgac cgccttcgct ccgtcaacga ggtgctccgc 240  
 ctgctcgagg agttcagcgg cgtcgccatg gacatccagg aggagatgcc ggcggacgac 300

ccgctgctgc gtccctggca gctgccctac cgggctgccg ccatgcccac cggcgccccg 360  
cacatgctcc actactgatg attgcctoca ccaaccacac caccatacat ctgatgctgt 420  
cagctggngc tggttggcaa caagacaaga agaatt 456

<210> 27191  
<211> 422  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-039-Q1-K1-B9  
<400> 27191

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ctcctccacg gcgatggccg gcacccccat caaggtgggc tccttcggcg agggccgcat 120  
caccatgcgc aagaccgtgg gcaagcccaa ggtggcgggc tccggcagcc cctggtacgg 180  
ccccgaccgc gtcaagtacc tcggccccctt ctccggcgag ccccgagct acctcaccgg 240  
cgagttcccc ggcgactacg gctgggacac cgccgggctg tccgccgacc ccgagacctt 300  
cgccaagaac cgcgagctgg aggtgatcca ctcccgctgg gccatgctcg gcgcgctcg 360  
ctgctgtcttc cccgagctgc tctcccgcaa cggcgtcaag ttcggcgagg ccgtctggtt 420  
ca 422

<210> 27192  
<211> 427  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-038-Q1-K1-H9  
<400> 27192

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gtgtcagatg cgcgtctgga tggttccaag attatcaaga ttttcttgga cccaaaggag 120  
aggtacaaca ctgaatacaa gctggagacc tgcactgcgg tctaccgcaa gctgtgtggg 180  
aaagatgtgg tctttgagta ccctatgacc gaaaatgcat aaatatgatg ccctatggat 240  
atctgcactc tatttcgggtg attctgaatg ttatgttggg tctccctatg tacttcaaaa 300  
aacatagttt tgatgctaaa gttgcctaag aatttgggtac ggggaagtgg cagtggacgt 360

gaacaatggt tagttttgag catttaaatac aaacctttgc cctgaaaaaa aaaataacat 420  
 ttttatt 427

<210> 27193  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-039-Q1-K1-A10  
 <400> 27193

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 agaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaagtctact ataattaaaa gataaaaaaca attcatagcc cttctattttt 180  
 aacaaataaa ttactttata aaacctcaa attacaaaac ataaccctt ttaaaaaaat 240  
 tccctttttt aaaaaaacct taatatcaaa aattaaatca cttttaaaaa tatccaactt 300  
 ttacaaaatc tcaatttaaa aaaaaacccc ccatatatca cctcatcaaa aataatcaca 360  
 tcaaaaatat caattaaa 378

<210> 27194  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-039-Q1-K1-A12  
 <400> 27194

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 acggcaagtg gcacgttcaa ggatgggtgag ctgaggctca atcagagcgg cttgcggctt 180  
 atctctgagg aaaacgggga tgaagatgaa tctacaaagc tgaaggtgga agatgtgcag 240  
 ttatcaatgg atgatcttga gatgattcaa gtcattggca aaggaagcgg tgggtgtgtc 300  
 cagctagtga ggcacaaatg ggtgggcaca ttgtttgcct taaagggtat tcaaatgaac 360  
 attcaggagt cagttcgtaa acaaatagta caggagctca aaataaacca agcatcacag 420  
 ag 422

<210> 27195  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-A3  
  
 <400> 27195  
  
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 agtacaagca gctggacctc cagatcccga ccgtgaacac cgtgggcgcg ctcgtgaaag 180  
 cgggcattcc cgcgctggtg tacagcggcg accaggactc ggtgatcccg ctgacgggca 240  
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 gtgcctggtt ccaggggaag caggtgtgcg ggtggacgca ggtgttcggc ggcggcgcgc 360  
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 cgctcggcc 429

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 <211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-A4  
  
 <400> 27196  
  
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 gggcggcgtg cttgctccag gggaaagcat catagcaaca gttttcaagt ttgtggagca 120  
 tccggagaac aacgagaagc cgatggacaa gtgcaagggt aagttcaaga ttgtcagcct 180  
 gaaagtcaaa gggccggtgg agtacgtccc tgaactgttt gatgagcaga aggaccaggt 240  
 cgcggttgag caaatattgc gggtagttct tggatgctga gcgcccaagc ccacaaatgg 300  
 acaaactcaa gcgccagcta gctgaagcag aagcagccct tgaggcacgc atgagacctt 360  
 cagaggacaa tggccccgt attgttggtg aaggccttgt ga 402

<210> 27197  
 <211> 411  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-A5

<400> 27197

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gagtgtgtca aggtaaatag tgtgaggcta cctcgacatg tttctgacaa aaggcatttc 120

tgtggcactg ctttagttga attttcagaa gaagatgagg caaaaggcgt ttttgagaaa 180

aatctcattt ttgctggggc agacctggaa ataagaccaa agaaagaatt tgatactgaa 240

agagaggcaa agaaagaagc atatgagaag tcacatccta ataagagcag tcatggtgaa 300

ggctatccaa aaggctctgat tctggccttc aagctgaaga aaactgcaga tgatggtgag 360

acacgaaaaa gtggtggtgg caaagtagat gacactgacc ttactaataa t 411

<210> 27198

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-A6

<400> 27198

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tgaagaaaag cctctctcac cacagccgcc acgccatggc cgaggagacc gacaccaggc 120

ctgcctccgc gggctcccga ggccgccccg cgcccgagga cgacgacagg gaggagggcg 180

agatcaccga cctcgctgc gtccttccc cgcccgccac gcacccgctc gagcactcct 240

ggaccttctg gttegacaac ccgcagagca agtccaagca ggccgcttg gggagctcca 300

tccgccccat acacaccttc tccaccgtcg aggaattctg ggggctttac aataacatta 360

atcacccatg caaattgatc gtgggagctg atttccattg cttcaagaac aagatcgagc 420

caaatggga agaccctatt t 441

<210> 27199

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-B1

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ttgctgtcct cgctgggaac tccagcccct ctgccgagga cttgacagcc attctggagt 180

cagttggctg tgaagttgac aatgaaaaga tggaactcct tctgtcccaa ctgagcggta 240

aggacattac cgagctcatt gctgctggca gggagaagtt tgcttcagtc ccatgtggcg 300

gtggcggtgt ggctgttgct gcagctgccc ctgctgctgg cggcgctcct gcagctgagg 360

cgaagaaaga agagaaggta gaggagaatg aagaaagtga tgacgacatg ggctttaacc 420

tcttc 425

<210> 27200

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-B11

<400> 27200

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gtggctttga aggtccatct atgctgggtca catggatatcc tatggatcaa tccgaaggct 120

agcttctgga gatgcctgaa gaaggtggac ttctggaaac tctttcggag ccattcttca 180

agcttcccag aaggcttgat tttacaatgt aacaaaacac acatgctgct catgacattt 240

cgagcatgta cctctggatg tttgtaggct cagaaaaggc cctggtctta ggctctgaaa 300

acctcatctg gcgaccatac gttatttacc ttgtatgggc gctcctcttg ctggtgagac 360

acggtgttac gagttacgac tcgatgaaca tgtaataaag cttttcagag aaaaaaata 420

tatatattt 429

<210> 27201

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-039-Q1-K1-B12

<400> 27201



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 gcaccgtcgc cgtgatccag gtcaccgacg agggccaccg gcgcgccgtc cacgacgcgg 180  
 gccggctgtc caggggtgcag gagcttctcc gcgacgtgat gcggggcgac ggcacgtgca 240  
 accacggcgg cacgggaatc tccgcggaga ggcgcctgca tacgctgatg ctggacagcg 300  
 tcnccggcgg cggtgccgat gaagctggtg gcggcggtga cgagaggggt ggatgtggcg 360  
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<210> 27202

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-B2

<400> 27202

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 gtgggaagag atcaactgat agtttgaaga acagcagctt cggcaaccag gccggggggtg 120  
 gttcaagctt tctctgagc ttccataaca gctctagtgg caatcagttc ggtgatacta 180  
 caagctttca tgccagctat ggtaacagca gccagaacaa tcagacgggt gacaatccga 240  
 gcttcccacc cagcttcagc aacaatcagt cgggggatgg tctcagtttt catgaaagg 300  
 tctatggatc acgcggaagg gacgagagca gatcatacaa tgatggattt cgtgcta 357

<210> 27203

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-B4

<400> 27203

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 acgagggcgg cctaattctg tcagctgccg caagaagaaa tgtggtcaca gcaaccagct 120  
 gagggccaag aagaatatca agatctgaag tgctgaccc agtcactttc atggacaatg 180  
 ttacgcttta ttgctgtgtg gtttatgaac agggtttggt taccacaacat t 231

<210> 27204  
 <211> 297  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-B5  
  
 <400> 27204  
  
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 aagaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa gggcgccctt tttaaagaat caaatTTTtac tacccttca ttccaatata 180  
 aaatctTTTT tatagtga aaacaaattaa attaatTTTc cTTTTTTTaa aaatataatt 240  
 attggaaaaa ccctTTTTTT accaatTTTaa atctctTTTta ttaaaatccc TTTTTT 297  
  
 <210> 27205  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-039-Q1-K1-B7  
  
 <400> 27205  
  
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 cactgatgtg gctatcctgc tggacaacga ggccatctat gacatctgcc gccgttccct 180  
 tgacattgag cgcccaacct acaccaacct caacaggctt gtgtcccagg tcatctcatc 240  
 cctgactgcc tcctgaggt tcgatggtgc tcttaacgtg gatgtgaatg agtttcagac 300  
 caacttggtg ccctaccga ggatccactt catgctttcc tTctatgtc cagtcattct 360  
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 <210> 27206  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-039-Q1-K1-B8

<400> 27206

aaaaccgaga agagaccagg ccgaaggaaa acaatcctga aaccaagcca tgggtctgca 60  
ggaggaattt gaggagcatg ctgagaaggc aaagaccttg cctgagaaca cgagcaatga 120  
gaacaagctg atcctatacg ggctctacaa gcaagccacg gttggagatg tgaataccga 180  
tcgtccgggc atattctacc aaaaggacag ggccaagtgg gatgcctgga aggctgttga 240  
aggcaaactg aaggatgagg cgatgaatga ctacatcacc aaggtgaagc agctccagga 300  
ggaggctgcc gcctcttaaa agtctcttaa tagtgttgcc aaacagctat ttgtcagatg 360  
agctntgtgc catttctca ttagaagtat atcattcgat ccattgngga tctgtgaacc 420  
atgtacctgt ttatgtaact ggttaccagt gttat 455

<210> 27207

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H8

<400> 27207

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gggtgtcatc aagagatgca agctagagac cactgaaagc tgaatggaga cgttgacgct 120  
gctaataaaa tccaaatcct ccatttgatt agcgtgaccg attgggtgga tggatcgccc 180  
ttgcagtttg ctcggtttg atatgttagt gatgtaaaaa aaatgatgtc gtcacgtctt 240  
gcgagatgaa tgaaccgact ttgttgtgat gaatccactg acagtcaact tatttattat 300  
agggtttt 308

<210> 27208

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G10

<400> 27208

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aggaagcaga gcgctgtggt ggccgcccgc tccatcgccc tgctcctcac ttgcacatctc 120

gcagtcgcag ctggagcaga agaagcagaa gcggaaggaa tagcgccgtt gaacacatgc 180  
gaaacgccga tcgcctgggc tccctgcttc ggcaagacct gggctctcgt tccccctctgc 240  
attggactgc gctacaccgg cggtttctgc cagcagcagc aggtgatcga gggagacgcc 300  
ggcgccgagc ctgctataat cggaggcgcc atctgcgtgt gcaccaagca gtgcctgctt 360  
gtggatgtgg aggcggatca aggtgca 387

<210> 27209

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G11

<400> 27209

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tgcgatttcg tggacaatgc gaagaagaca gtgatggacg tgggccataa cataaccgac 120  
ttcttcaagg acttgttcga cgactcagcc aagaccaga ctggggcagg ccttcagca 180  
gctgagaagg gcccttctac ggcagatatg gctgtcggcg gatccttcat ggctctggcc 240  
atagcgggtca tcctagtgt tatgttcaag agggcatgat atagccatga gtatcttctg 300  
ggatccacgg tgctttaaat ctgtcgaaaa ttactcgtct atcgtttggt caagaactcc 360  
tgactgtaat gtaatgtaca gcttgtgtcc ttgtccttgg aaacagtaca ctaaaaggct 420  
atctatgata taca 434

<210> 27210

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G12

<400> 27210

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agattgttgt gagagtaggt ttggcatccc ttactgaggc cttctttaac tgggctggat 120  
tttggagtgc aatggcttca aatgtaacct tccagtcaag gaatgttcta agcaagaaac 180  
ttatggtgca caaagaggaa tctctctaca acattaacct attctcgatc attacagaca 240

tgtcattctt tctgtacatc atagtaacct tacttaca

278

<210> 27211

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G3

<400> 27211

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ggggacgtag atggcggctt cggcggcggc ggcggcgaca ccggtggcgc cgacagaggg 120

gacggtgatc gcgatccaca gcctggagga gtggagcatc cagatcgagg aggccaacag 180

cgccaagaag ctggtggtga ttgacttcac tgcaacatgg tgtcctccgt gccgcgccat 240

ggctccaatt tttgctgata tggccaagaa gtccccaaat gttgttttcc tgaaagttga 300

tgtcgatgaa atgaagacca ttgctgagca attcagcgta gaggccatgc caacattcct 360

gttcatg 367

<210> 27212

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G5

<400> 27212

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gttctcacc ttgacgatca taacacggtt tctggggcgc ccgtcaacaa caccatcaac 120

caccaaaacg gacaccaaca atattttt 148

<210> 27213

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G6

<400> 27213

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ggcctgatgc tctacgttct cttctggatc aagttggacc ttttcacaac tctcaagtac 120  
ctcggttcc tcggcatctt ccttgtgttt gtgggccata gggctctatc ctaccttcc 180  
tcggtgtcga caaacagaa gacggcatga gtggacagag ttttttccga ccatccattt 240  
cttgaggggg ggcattgca ggcccttggg tgtcttatga gggagggctt cggttatttc 300  
agttggcttt gcagaatact gataactaga taaagtagta tgacctcacc ttcgtgtatt 360  
atgatgatgc acatacaatt ttcttagtag aatggatggt g 401

<210> 27214

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G7

<400> 27214

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ggggcacgga cactgcttt agaagctgct ttcattggagt cggagctggt ggaggagctg 120  
ctgcaaaacc tgttgggtgcg cgcgactgat cctgaggatc ttgccaggta cacagggtgac 180  
gggtcagggtg actctagagg aaagcctatc acaaagcata gcacagcgaa ctggagagca 240  
tgtgcattga ttacaggtaa gacaacagtc tgagctatgt gctaagcatt gacacactca 300  
tatgagttct agaacgataa ccagactagt catgtcac 338

<210> 27215

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-G8

<400> 27215

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agcattttat gatccatcaa aatcaaggaa aatatgact gccccgcagc ttgtgagtga 120  
gaatgaacca caaaagtatc gggatgtaat ttatggtgac tatgtctcat cttggtatag 180  
caaaggcca gagggcaagc gaaacatcga cgccctcctg attcagcact agagccatag 240  
gtatgcctta aaacagggtt gggccactca tctgtttcct aaacttctaa tgcattgtaca 300

atatatcagt ttccaacttt aaacaatcag gataaggaaa ccaacttgta tactggatgc 360  
 agtgcaataa agtacctttt cattgtc 387

<210> 27216  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H1

<400> 27216

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 gcgcgtacat ctccacctac cgaacatgag acccctacag ctaccttgcc gacgcatgaa 120  
 cgagaagacg gggtatactt tgtcgaaacc ctcttcgcta gtggaggat cgaacccgat 180  
 ggtgatcggc gatcgtgagc attcatgtta agtgttctaa tacttgagac ttttattatg 240  
 actatgtatg agatattgtc tcttattagt actggatgag atgtgcctta ttatgattat 300  
 ggattagact ttttgtgatg aaattgatga ggactatgga tttaaatatt gttatgtgaa 360  
 tgtgtgtaag atggt 375

<210> 27217  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H11

<400> 27217

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 gcagagcaca gatgaagtga tggacgcaaa ctggattcta cgcaagttgg gcaaggatgc 120  
 gatcggaaag aggattgagg tccatctaac ttctgatggc aaatggcatc aagggatggt 180  
 gtctaattgtc atgggtggca cgctgtgtat tcagttagat aatggcaggt ctgagaacgt 240  
 ggagctgggg aagcaggcca tccgcttgat tgcttcaaga tcgaagggcg ggaagcgatg 300  
 aaaccttttc ccataatat gcagcttagg acctgttctc gctcaatata ttgcgccatg 360  
 attatggcag gtagagtcc ccccccctcag gtttgacatc cgctggagca gagcctctca 420  
 gcctttgctg act 433

<210> 27218  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-H12  
  
 <400> 27218

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 gagcaggtga tgaaaaacat gggcgagata ttgaaagcta gtggtgctag ctattcttca 120  
 gttgtgaaga caacgatcat gttggctgat ctgcaggatt tcaataaagt aaacgagatc 180  
 tatggcaaat atttcccggc gccagcacct gcacgatcaa cctaccaagt ggcggcgctg 240  
 ccactgaatg cccggattga gattgagtgc atcgctgctc tctaatacaga tcatccaacc 300  
 actcattaaa tcatcaataa gcaccagga atttgtggta gaggtacctg taccagttca 360  
 gtgtctgaaa actgcgggta acaaaccttt gtgtaccgga taagtgatgt gtgtgtgtgt 420  
 gagtg 425

<210> 27219  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-H2  
  
 <400> 27219

caacaaagca gctcacttga gttcaattca gccatgagga gccaggtcgc agcagtagcc 60  
 aggtggttgc tcctcctggc cttgggtgct gaggccgacc tctgcgtcac gcgtagcagg 120  
 accttcaaag ggtggtgcc aagagcgag aactgcatca ccgtctgcaa gagcgagggc 180  
 aataccggcg ggttctgcaa gctcggggct tgcattgtga ccaaagagtg tgtccgaagt 240  
 actgacgctg ctggtgctaa taaagcccca cagcagcatt tgagttgatg agtagtaaag 300  
 aagaacgctt ttgttatgcc aacgcattgt ctagaattcg aggccgaaat gacaaaaaat 360  
 aatgaattt tgtactct 378

<210> 27220  
 <211> 240



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-H3  
  
 <400> 27220  
  
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 ctactgggtg ctgctcgatc gatcgatgat tccatgtaca tatttggttag ggggatgctg 120  
 cgggtccaggc tatagagttt gagggtgata tacttgctca tcagatcagt ttgctgctg 180  
 taagactggt tttggttttg gttttgctat aatcgtgata tatatattcc gatgtacagt 240

<210> 27221  
 <211> 175  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-038-Q1-K1-H4  
  
 <400> 27221  
  
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 ctgatngttg aagatgaaat tgcagaagca atgctgcggc ctttatagtt gcaacatgca 120  
 gcagatgaag cagttgtatt agaggctgct ctaattgctc agcttattac actta 175

<210> 27222  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-G1  
  
 <400> 27222  
  
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 ggagtagata gactcacaaa taccaggaga agcctccccg caagtcgttc aggtatctgt 120  
 ctgcaggaac tctcggctcg aatggtgctt ttagcaaggc tgccaatttt gtgtagtatt 180  
 ttgtcaaaac tgaaggcctt tggattagtt tgtgctggtc agctagaaac ctggaaacaa 240  
 caaacttggt gagtagcgat gtttacaaga aatgtagcct ttatgggctc ttgtaaccct 300  
 ttctctctta tcatattttg ttaaagaagc aaaatatcca ccaaaactc 349

<210> 27223  
 <211> 282  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-H6  
  
 <400> 27223  
  
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 agcgagcttc tacgccctct atgattgcct tgccctgcttg cctctactcg tccggcccag 120  
 ccatggccac catcctggag accatacaga aggcgaggct cctgcactca caggccgctc 180  
 aaggacgagc tgccaacctt atgcggcggc ggcagacagg agagccacct cacaggcctg 240  
 cggaagctgc tgaccgcctt ctccggcaag atccagccca tc 282

<210> 27224  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-038-Q1-K1-H7  
  
 <400> 27224  
  
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 cagaaagcga ggatagtttt gctagcgtgc agtctagtga accatcaaca gcaagcactg 120  
 atactaggga tcaaacaaat gaaatctcaa accgtgcaaa tatgtcctct agaacaacgg 180  
 acttaaata gtcaggatth atatctcaag tgctcaagca ggcttcagaa attgaaagtt 240  
 tgaaacaaga aaatctgagg ttggtggaag agaaggatgg actggaaatt catagtcaaa 300  
 agttggcgga ggaatcatcc tatgctaaag aattggcttc tgctgctgca attgaactta 360  
 agaaattggc agaagaagtc actaggctnt cttatgaaaa cgcanagctg aatgcagact 420  
 tagctgcggc aagagagcta aatgcatcga tgtca 455

<210> 27225  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-E11

<400> 27225

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tgggtccactc ggtgcttatg agcttcgtga tgagaagcat aagctgaaat tggagaagga 120

gagtttagaa caccagatga agctgatgac atcgactcca acctacatgc ctcatccgac 180

cttgatgctg gcgcctttcc ctcaggcacc cctagcgctg ttccatgcc aggggcaagc 240

tgcattggcag aagctgatga tgcctttgt cagctatccg gggtagccaa tgtggcagtt 300

ccatgccggc tttagaggtc gacacctga agaacagtga agcgtgccct cctgttgcatt 360

aattgcttcg actagcggct ggtcctgctc acaccatgcg aattagtcgc aactgaatcc 420

<210> 27226

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-E2

<400> 27226

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aagagtgaact acagcatcat gggaggatta gtgattgaat tcgggcagaa ggtgcttgat 120

atctcaatca ggaacagggc gaagcaaatg gaggcgttct tgaggcaacc acttgacttc 180

taacagcctt ttggataaaa gaagcatcat cggaatgcag aggctgtcct gttgaagggtt 240

ttcctgtgtc tgcaatttta atctgtcctt ttgaataaaa tgtttcctct aataagtga 300

gggcactgtt tttattgtct cgtgggccac agatgcctgc tgaacaattt atgttcattt 360

cttcttttct taaaaagca tgcactaaga acatgaatga tgcattgtcat gaaaagtgtt 420

gaaagtcatt gaacctatga gcttctatgc 450

<210> 27227

<211> 374

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-E4

<400> 27227

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 ctgaatgttg gtgcacccca ttgtaaaggg tatggaatgc ttatcctaag agagtggaaa 180  
 gttacatgaa aaatgtaaaa acattgatgt taaaattagt caatgatata tagggaagtc 240  
 tccaaaccat tgtgatgaag atatgagatt ggcacggctc gtccgacagt tgatctgggt 300  
 gacaagtgct gtgtgcttgt atgcaccact tgctgtgagg atgtgggcat ataaccatac 360  
 angagtgatg caca 374

<210> 27228  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-038-Q1-K1-E5  
 <400> 27228

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 aagcgagggtg gcagggcacc ggtgccggcc aagaagaaga cggataaagt gacgaaccct 120  
 ctgttcgaga aaaggccgaa gcagttcggc atcggcggcg cgttgccctcc caagaaggac 180  
 ctgcaccgat tcgtcaagtg gccaaggtc gtgcgcaccc agcgccagcg tcgcatcctc 240  
 aagcagcgcc tcaaggtgcc tccggcgctc aaccagttca cccgcaccct cgacaagaac 300  
 ctcgctacca acctgttcaa gatgcttctt aagtaccggc ccgaagacaa ggctgccaag 360  
 aaggagaggc ttctgaagag ggcccaggct gagaatgaag gaaaaactgt tgaatccaag 420  
 aaaccaattg ttgtgaagta tggccttaac catgtga 457

<210> 27229  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-038-Q1-K1-E6  
 <400> 27229

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aagagccgct gaactgtaca ggcagatgct taccaaggag gtcgctaaga gcgccacgac 180  
cgataatgcc ctgccatcct cacctgtcgc atctgaggct tccaagccgc catccgatga 240  
cttccctgaa ttcaaactcc cagatgtggc agcaccaccg gcagagaatc tgaatgggaa 300  
gcatgagccc aagtccecca aagctgctcc tcgttcacca aaggccgcta ctcatccac 360  
ctttgccact tctgtgaaga agc 383

<210> 27230

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-E7

<400> 27230

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tggtttgcta atcttgctat taagatcaat gccagtttg gaggaagaaa cttagaattt 120  
gctaatccca aataaagctt accgggtggt acaattgaac caacaattat atttggtgct 180  
gatgtcacac accctgccgt tctagatgat accgcccctt ccattgcttc cgttggtgcc 240  
tccaagact ggccaaggt ggctaactat aatgggattg tccgtgcaca tggtcacgt 300  
aaagagctca tcaatggcct ggaagacatt gtcaaggaac tcctacttgc att 353

<210> 27231

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-E8

<400> 27231

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gtcctctcac tccatcacia acgctagtct tcctctaaag agatctttgg caacgaccga 180  
cagctcggag cgagtctcag aagcgatggc gtcaaagagg ctgctgctgg cggcgctgtg 240  
cgtggtggct gctgcgctgc tcgccgtgcg gtcggagtcc cacggcctgt aggacttcgc 300  
aagcagcgac gcgacgccg agatgcatac cttcttcaag cccgaggcc 349

<210> 27232  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-E9

<400> 27232

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 attgatgcgt gtcatagtgg gactgcactt gatttgcctt atctctgcag aatgaacagg 120  
 attgggcaat atgtatggga agatcaccca cgcgatctg gtgtctggaa aggactagt 180  
 ggtggggaag ctatttcctt tagtggttgc gatgatgatc agacctctgc agatacctat 240  
 gctttatcaa agatcacttc gactggtgca atgacattct gcttcatcca agctattgaa 300  
 cgtggacagg gcaccaccta cggtagtata ctgaactcta tgcgttccac aatacgcaac 360  
 acaggtgact caacgggtgt aagtggctgt actgttacat cactaattac aatgct 416

<210> 27233  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F10

<400> 27233

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 gaagtcgttc tcttactcag gaggcctcct ccgccatata ttcacctgat ctatcgttgc 180  
 tggttgatcc agtctcaaac gctgtaaata catagtcctt tgactgttaa aactttatta 240  
 ctggtgaggg ggatctcctc cccaggtac ggtttacctg cattcaagtt gccagtgctc 300  
 ttactggatt gctggtgttt ggtgtttctg tgatgcaatc tgtattctgt aggtcatttc 360  
 atgactaata gagtcgaccc cttccaatgc cgtcaatggc aagagctctt ccaatcaaca 420  
 tgc 423

<210> 27234  
 <211> 312  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F11

<400> 27234

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aaaaaaaaagaa aaaaaagaaa aaaaaaaaaa acaaaaaaaaaa aaaaaaaaaa acaaaaaaaaaa 120

aaacaaaaaa aaaaaaaaaa aacaaaaaaa aataatatac ctaaaacaaa accaaaacct 180

caaaatataa aaaactaata aaactgaaaa aacatttaac ataccaaaaa taaaaataac 240

taaaaaaaat cataaaaaaa aacaaaacac ttaaaaatca aataaaacac aaaaaaaaaa 300

ccctatcaaa ca 312

<210> 27235

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F12

<400> 27235

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cgggctcgtg gaggagtcaa ttcatgccat tgtattaggg gttttctcag tggcaattat 120

gtctgaagat attaagttca aattcaaagt gaaaagtgat ggaggaaaat ttgtgagcct 180

cacagataaa aaacatgtga ttgaaagagg aacaatgata aggttttctg tcaaaagggg 240

ggatacagaa atgagttgtc atattactgg atctttaatc ccacctcaca ctggatgcat 300

gcgttggttg tcagtacatg atcctaaata tgcatacagaa ctcaaaagtg gtgaaagtag 360

atcaagggat acaagcatca aaattgagca gaatgaacaa gaacatagaa tactcaagaa 420

tgaagatggt atg 433

<210> 27236

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F4

<400> 27236

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 atctggaagg caaacgcgta ttggagcttg gatgtggaca tggctccctt ggcatttttg 180  
 ccggtctcaa ggggtgctgac ctgattcatt tccaagattt caatgcctac gtgcttaggt 240  
 gcttgactat accaaatgta caagtcaatc ttttcaagga ttcaccacaa ggaacatgta 300  
 ca 302

<210> 27237  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F5

<400> 27237  
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 ggcgcccctca ctctcgccg ccatgtccac ctgcgccctt ctagccagca gcggcagcag 180  
 ccgcaggccg ctaggcgctg cccacacccg acgggctgga ctgcgcgtgg ccgcgcttaa 240  
 gtacgaccct gccaaagggtg cgccgcagaa cgaccgggtt ctgctccgtc ttgagcagat 300  
 ccctgagaaa tctgctggcg gtgtattgct accaaaatct gctgttaagt ttgagagata 360  
 tctgatgggt gagattctat cgatcgggtg tgaagtcagt gaagttgagg ctgtgaagaa 420  
 gggtctcttc tcagacatca atgct 445

<210> 27238  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-038-Q1-K1-F6

<400> 27238  
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 cagcaagtcg tcgtcgtcct cgagctcggc gcagcgggca gctgccgcac tgctcgtggc 180



cgccgcgctg gcggtgtccg tcctggtggt gggcgcgggc gcggtgtgcg acatgagcaa 240  
cgagcagttc atgtcgtgcc agcccgcggc ggccaagacg acggacccgc cggccgcgcc 300  
gtcgcaggcg tgctgcgacg cgctggcggn ggccgacctc aagtgcctgt gcggctacaa 360  
gaactcgccg tggatgggcg tctacaacat cgaccctcag cgcgccatgg agcttt 416

<210> 27239

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-E10

<400> 27239

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gattctgaga aaccaagcaa tcagagcttt gccatgattg tgaaatctca cacattaagg 120  
ctccctgtcg gtaatccgga tgggacaatc attataagaa ccgaccagta caacagagat 180  
gatctccgag ttgactatat gtatgcaaag ttctttgtta tcaagtcaat tggtgaggca 240  
gatgtgcaca aatcgataaa gtatggtgta tgggtcaagtt cctccaatgg aaacatcaag 300  
ctagatagcg cattcagggg tgctgacagg atatcaagga ggcattctac taagtgtcca 360  
gtattcttgt tcttctctgt gaatgggagt gggcacttct gtggcatggc tg 412

<210> 27240

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C4

<400> 27240

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gggcgctctt cttcgaggag attttcaagg acctgctcga ctcgggccag tacgaggatt 120  
ctgcaagaga actcgatgcg gcactccttg agctcacttc aagtcccag ttccctaagg 180  
gtcttgctgc tgtacgttca gatttgctat ccatggcaag ggtgttggtt atgcgacatt 240  
ttctgaaacc aaacacaatg agcgtggaaa acttttgtgc tcttcttgaa gcggttgctg 300  
gcatggatat tgatggcatt tgtgctagtg gtgcgcacaa cgcattgcgag tatgctgagt 360

caatattgaa tatgaataca tcatg

385

<210> 27241

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C5

<400> 27241

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tgaatcccg ctcctcctgta ctgcatattg ccagcagttt gtcttctcac tgggaagttc 120  
atcatcccaa agattagtaa cctagagagt gtttggttta tatcgctctt tatctcaatc 180  
tttgccactg gtatccttga gatgaggtgg agtggtgttg gcattgatga atggtggagg 240  
aacgagcagt tctgggtcat tgggtgtatt tctgcgcatt tatttgccgt cttccagggt 300  
ctcctgaagg tgcttgctgg tatcgacacg agcttcaactg tcacctctaa ggccactgac 360  
gaagaatgtg attttgccga gctctacatg ttcaagtgga caacgcttct gatcccaaca 420  
accactatctt tgatca 436

<210> 27242

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C6

<400> 27242

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gatgcattcg agaatgacta cgttgaggaa ccactccctg aggaagagca agtgcgctccc 120  
ttctccgagg atgttgatgc cagcgcgaag gaaatggatg ctgccgcaga agcggaggct 180  
actggaacaa ctgcaggcgc tgagaagagt ggtgatgtcg ctgctgtgtg aaggcggttg 240  
ctacaacctg aagaggtctt ttctggacac ttgaataagg ttaccttggc tagctatcta 300  
ctacaatcat gggcatcttt atacaggttt gatgtatcta ccatcgaagg ttatgctatt 360  
attgttcgct gaatct 376

<210> 27243  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-C7  
  
 <400> 27243  
  
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 gcggccttgca ataattgagt acatcccatt gttggcgagt caattaggtg ttgggttttt 120  
 cgatgacaag ctggggggcgc tctgcatgca atgggttgaa gacaaggtct tttcaatcag 180  
 agatgctgcc gctaacaact tgaagcgcct tgcagaagag tttgggtccag agtgggcaat 240  
 gcagcatata atccctcagg tgctggagaa gatcaacaac ccacactatt tataccgcat 300  
 gacgattctg caggcaatct ccttgctagc tcctgtcatg ggtgcagaga tcacctgtca 360  
 aaagctgctt ccagtcgtca ttaattcttc gaaggacagg gttcccaaca tcaagttcaa 420  
 tgttgcgaaa gtactacagt cacttgtacc gatcctc 457

<210> 27244  
 <211> 119  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-C8  
  
 <400> 27244  
  
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 taaccactac tactattctt caacaacaca ccttacacca ctcccatacc tcacttcaa 119

<210> 27245  
 <211> 262  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-C9  
  
 <400> 27245  
  
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 aattgtggcc atacaagaag gaatcgaatg tagaacgatg atgtacgaga tagacttggg 120  
 gtagcggtag caccaattga agaaaacctt gttcaaaatc aaaaccgatt gagatggttt 180

agactttaga catgtccaac agagagatct atagaggcac cattccgtag tgggatctta 240  
acacatgata atactaggaa aa 262

<210> 27246  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-038-Q1-K1-D1

<400> 27246

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gaatcgggtgg gtgaacatgc tgctctgac ttatccacag agccataatt accaacaaga 120  
tgattttccac aaagctgttg cacggacctt gagccaagga tcagcaccta tgagcatgga 180  
tttccatcca cttcaacaaa ctcttcttct tgttggtacc aatggtggcg acattggatt 240  
gtgggatgtt ggtaccaaag agagactcgt tgtaagaaac ttcaaagtct gggaccttgg 300  
taaagtaca atgaccctac aggcagcact ggttaaggac ccaactgtgt cagttaatcg 360  
cataatatgg agtcctgatg gaaccttggt tgggtgtgctt attcaggcat attgacagat 420  
tattcctat 429

<210> 27247  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-D10

<400> 27247

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tgtttgacgt caagaatgaa ttcaagtcaa tgtttctgag ctttgccagt tccaagaatg 120  
ccgccatgga gatcccacct gaaaactacc tcattgtcac aaaaaatgga aatgtgtgcc 180  
tggtcattct tgatggaacg gctgccaagc tgagtttcaa cgtaattgga gacatcacga 240  
tgcgatgatca gatggtgatc tatgacaacg agaaatcgca gctgggatgg tcgcgttggg 300  
catgcactat gagcgccaag tctattctgt cttcctttcc ctgagctcag ttctatgtac 360

ttctgataga gtttaagaaa atcactatat caaaccttct cgcaatgcat gaatttccta 420  
actg 424

<210> 27248  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-D11

<400> 27248

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gttgggaggt ccaaattcttc cattaaaatc aacaaacaag aacaatagca gctcttttgg 120  
ggatcgaata ggttccctct tttttgctac aattggttgt ggagcgcaag ttgaggcctt 180  
agaaggatct gagccacaaa agattagtgt ttgctccacc aataatccag ttgacgcctc 240  
attctttgaa tcctttgaag catcacactc caagcgtgat ttaactagct ccattgcaga 300  
gaaacttggg gtccgagctc ctctgttag aatggatagc caagcaaaat atggtgccct 360  
agcacgtggg gatggtgcc a tttttctgcy catcccgac aaaagttaca tagaaacagt 420  
ttgggatcat gca 433

<210> 27249  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-D12

<400> 27249

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cgggtcgtca gcgtcctcga gctcggcgca gcgggcagct gccgcactgc tcgtggccgc 120  
cgccgtggcg gtgtccgtcc tgggtggtgg cgcgggcggc gtgtgcgaca tgagcaacga 180  
gcagttcatg tcgtgccagc ccgcggcggc caagacgacg gacccgccgg ccgcgccgtc 240  
gcaggcgtgc tgcgacgcgc tggcgggggc ggacctcaag tgctgtgcy gctacaagaa 300  
ctcgccgtgg atgggcgtct acaacatcga cccaagcgc gccatggagc ttccggccaa 360  
gtgcccctc gccacgccgt ccgactgcta gcagtgtgct agccaagcca agcc 414

<210> 27250  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-D2  
  
 <400> 27250  
  
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 gaagggggcg gccccgcgg cacaggagac ggccgtgcac atcgtgtacg ttgaccgccc 120  
 cgaggacgcc gaccctgagg agttccacat ccgcaccctc acccccgccc tcggcagcga 180  
 acagaaggcc agggacgcag tgctctacca ctacaagaac gccgccagcg gcttctccgc 240  
 gaagctcacc cccagcagg tcaaggatct caaggagcaa ccaggtgttc tccaggttgt 300  
 gccgagccag acttaccagc tacatggccc tgggtctggc actcaccagg gcacgacaca 360  
 caccttgggc cttatgtgaa agcgtatgag aatcaagaag att 403

<210> 27251  
 <211> 264  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-D3  
  
 <400> 27251  
  
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 ggaggatctt tgcaatctcc tacactacaa caaataaccc atgaccatcc acgattactg 120  
 aattgcctcc tgctttccag agtgcaatat aatgcacatt ggctgcactg tatgctgtta 180  
 aactgacac tgttactcat aacactttca acacacaaac ctcttcaggc ctttatgcat 240  
 taacatatat cgccactact atta 264

<210> 27252  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-D5  
  
 <400> 27252

accgagtacg agcaaccgct tgcgtcagac tcacactgac ggagagtgat cactgattgc 60  
 gggatcatggc aaccgtaact gaggaagttg ctccggtcgt caccgtctcc gatgagccgg 120  
 cgccggaagc ggccaatgag gtggtggaga agcccgagga ggggaagaag cccgactagg 180  
 aggggtgacga gaggaagaag gccgaccccg ccgtcgagaa ggagaagaag gcgaggaagc 240  
 cgcgaggacag gaagcccaag tccgtcgggc tgcaccaccc gccctatttc gaggtgagca 300  
 aagatgccgt cgtcgtcgtc gttegtcttg tcggttactc atccgtgctt ggattctcat 360  
 tctgatgacg ggtegtgtg tctgctggg acctgaggtt at 402

<210> 27253  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-038-Q1-K1-D6  
 <400> 27253

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 tgtggtacaa ttttacgac tccttgtct gggcaccatt cctggtcaaa gctaaaatat 120  
 ttgaggacga cgatggagtt tctactgctg atctccagct gcaccttgac gttctcgaga 180  
 cagactggac tagtcaatgg gagaagtctg attacgcggt gatatccacg ggccaatggt 240  
 tcttcaagac tgcagtgtac tgggagaatg gagctgcgat tggctgccac tcctgccaga 300  
 acaaaaccct ggaagagagg cctncggagt actccttccg cagggcactc aggggtggcct 360  
 tccagttcat cacattctca ccttacaagc cag 393

<210> 27254  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-038-Q1-K1-D7  
 <400> 27254

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 tccgtcttcc tacatcttct tcggtgcgct tctccaaaca aacagatgaa gatggtgaag 120  
 gaattcctct aagatcgtcc gaatcattcc ggtcaccaca ttaacgcatg tttgctaate 180

attaatttgc acagagtttag ggggtgggtat tatatagata atgctatcag tgagcttgta 240  
ctaaggggtac gatggatgga ccctcttttg ctttggcaga attgtatatg tatgccaac 300  
atcttgtgga actcccaata tatttctctt ggctgtcgtg tgtgat 346

<210> 27255  
<211> 413  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-038-Q1-K1-D9

<400> 27255

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gagctagaga gctccctcc gacgtgtccc ctctgacggg aaacaaaggt tttggtccg 180  
tgagcatagt agcgtcaggt gagaaggtgc ctttataagg ctgtcctaag aagtgggcga 240  
gatatgttgt tgcacgnta tcgttatggt gcctgtaact gttgtgtgtg ccgtgtgcgt 300  
tcggaagaat tggatggaat ggaactcgtg gcttagtgta gtacatcaa gagtcatgtt 360  
attctttcaa gaaattttga cttggtaata aataaactat ngtttgtgcg tcc 413

<210> 27256  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-E1

<400> 27256

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aagggtttag tgaagatttt ttgaagccga gaagatggtg ctgaagacgg aactctgccg 120  
ctttagtggc cagaagatct atcctgggaa aggcattcgg tttattcgtg ctgattctca 180  
ggttttcctt tttgccaaact cgaaatgcaa gcgctacttc cacaaccgcc tgaagcctgc 240  
aaagcttacc tggacagcaa tgtacaggaa gcagcacaag aaggacattc atgctgaagc 300  
tgtcaagaag aggcgccgcg ctaccaagaa gccatactcg aggtccattt ggggtgct 358



<210> 27257  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C3

<400> 27257

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 gctaggtgca agttcattgc tcaatgcttt atatatggtg atagtttcaa ctcttcccta 120  
 gttgccattg tagcagtcga accggagggtg ttgaaggctt gggctgcac agaaggaatc 180  
 cagtacgagg acttgagaca gctctgtgct gatcctagag caacagctgc tgtcctggct 240  
 gatatggatt ccattgcgaa ggaagcacag ctgagagggtt tcgagtttgc taaagcggtt 300  
 actcttgttg ctgagccatt cacattggat aatggccttc tcacccaac attcaaggtc 360  
 aaaaaggcgc aagccaaagc atactttgca aagaaatctc aaacatgtat tca 413

<210> 27258  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-038-Q1-K1-A8

<400> 27258

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 ggatcgcgtt tttaggggtg gcctactaca atcatgtcaa gctgcaggcg ctcaaggcta 180  
 aggaggccca gaagaaagcc gcacaggctg atgaggaggt tggatcgctc ttgcaggagc 240  
 gcgatggaca cggatgatcat aagagcgaca atcaggctta gactgtcaga tctgatcctg 300  
 gccttcccat attgacttca gcgccagaa gaattcttga tctgntgttg cggcactacg 360  
 caactcaacg agatttttgt cgatgcacat tggggaagat cttgagcaac t 411

<210> 27259  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-A9

<400> 27259

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aactccaagg gtgcatcacc gagccggtag acggggaggt ctgcgggctt cggcttcggt 120  
acctttctct tgcgaaactc catgctcgac gctatcgaga acatgaacgg caaggagctc 180  
gacggccgta acatcacctg taaccaggcc cagtcccggt gcggtggcgg tggcggcggt 240  
ggctacggcg gcggtcgcgg cgggcggcgc tatggtggcg ggcgcggtga cggcggttat 300  
ggcgcgggtg gcggtaccg cggtcggcgc gaggggtgtg cggcggtac ggaagcgggtg 360  
gcggtacag cggtcggcgc gaggggtgtg gtggc 395

<210> 27260

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B1

<400> 27260

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aaggaaaaag caaaacaaag caggaaagaa agagaaaaca aaagacaaaa aaggcacaaa 120  
aaaaaaaaac aaaggacaac agaaaaaaaa ggacaaaaag gagaaaaaaaa caagagaaaa 180  
aaaaaaaaaa aacaaaaaga acaaaaaaaaa caacaaaaac acaaagagca aaaataaaaa 240  
ggacaaaaaa acaacagaaa aagaaaaaag aagaaaaaca aaagaacgaa gaaaaaacac 300  
aacaggaaaag agaagaaaaa aagacaagag 330

<210> 27261

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-B10

<400> 27261

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tggcgctccta cgctccagtc atttctgctg agaaggccta ccacgagcag ctgtccgtgg 120  
 ccgaaatcac caacagcgcc ttcgagccat cctccatgat ggccaagtgc gacccccgcc 180  
 atggcaagta catggcatgc tgcctcatgt accgtggtga tgtgggtccc aaggacgtga 240  
 acgctgctgt ggccacaatc aagaccaagc gcaccatcca gttcgtggac tggtgcccga 300  
 ctggcttcaa gtgcggaatc aactaccagc cttccagcgt cgtccccggc ggtgacctgg 360  
 ccaaggtgca gcgtgccgtg tgcattgatct ncaactccac cagtgttgtg gaggtcttct 420  
 cccgcattga ccaca 435

<210> 27262  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-038-Q1-K1-B11  
 <400> 27262

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 gattctgctg agccccgaag gactacttct gattctgctg aacctagacg atctaacagg 120  
 cgaattcaac caacttcaag gttactagag ggcttgcaaa gttccctcgt aatctcgaaa 180  
 gttcctggcg agaaggttcc taggagcaat tacaaaagtg catcctcaag aggagaaact 240  
 caagctcatg ggtgagtga ggcaccacat agctcatagc tgcttttggg gggacagctc 300  
 tcgtgtacat agctgtagcc gtccagtatg gaaggaggat agggttggag taggaagtct 360  
 ttattggagc gcatggattc agatgtatta taaactaact taagtgcatt gtgttaacct 420  
 tttctttt 428

<210> 27263  
 <211> 362  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-038-Q1-K1-B2  
 <400> 27263

ggaaatccgt ttgcttcatg ttgtgcaggc ttatatctga ttgctggatt cggcaaacc 60  
 gcgttggaac ctgtatcggg tagtccttgc ctgcaagggt cttgttgtt tgttttgggt 120

gtcgcagcatc gcatgttctg cttctggatc cagatctgga gaaatcgoga agtcgtcgtc 180  
 gttecggttcg gagcggatct gaggcgacga tagatggagg cggcggggatc tctcggtctg 240  
 cagtcctgct ccacctcgat ggatgatgtc tctgcgctga taattattgg atcaatttcg 300  
 ataattatta gtagatctat gagatatgcc gcctggaaga ggcgaggtaa gctgcagcat 360  
 gt 362

<210> 27264  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-038-Q1-K1-B3

<400> 27264  
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 gtggtgcgag ggagacaacc agcgcctggaa gattgttccc tgggtgaacaa ggaaatgtgt 120  
 gaccgagccc gcaccaagga ggagctcctg ccgtaataag tgaagtgatt ggtactgaag 180  
 tttctggaaa taagaggctc ttccgagatg cctgtttgtg tgagtatttg cgtttccatt 240  
 ccgttttcat gataataaaa cgcattgatt attaatatat gtaatgtgat gctacactga 300  
 gtggcagcgt tggatatatat ttgtaagaag taagaaccca ttgttgttgg actaagcgtg 360  
 acgagtgatg tactgatgta tngaaccttg cttgatg 397

<210> 27265  
 <211> 331  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B4

<400> 27265  
 cccacgcgtc cgcccacgag tccggccatg gctgccgaag ctggcccaat ctccaaggtc 60  
 ctgatcgtcg tagcgatgca gacggaggcg atgccgctcg tccacaagtt caagctcgtc 120  
 gaggcgcccc cccacgaatc cacatttctt aaagggtgcc catggggttag gtaccatggc 180  
 aactacaaag gcctccacat tgaccttgta ttgcctggaa aggatgctgt tttaggagtc 240  
 gacagtgttg gtacgggtatc ggcagctctt ttgactagtt tttccattca aacattgaag 300

ccagacctta tcattaatgc tggcactgct g

331

<210> 27266

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-B6

<400> 27266

ctcatcctgc tcacctactt tgcggtcgtc tccggactcg tgtacgacgt catcgttgag 60  
cgccctggca tgggcagcgc ccaggacccc ggcactggcg ccgtccgccc cgtcgtcttc 120  
cttccagggc gcgtaacgg ccagtacatc atcgagggac tctcctccgg gttcatgttc 180  
ctccttggcg gcattggcat catcctcttc gacctcgccg tcgaccgcac gaggccccgg 240  
agcctccgcy tctcgtttgg aagcgccggc gcagtcgccc ttgtcatcgc ctacgccatg 300  
gccatgctct tctccgcat caagatcccc ggctacctct ggtgaggttg ataaatcttg 360  
cctgttaact agaccagatc cgtcgcgaga tctcgctgca tctaaataga cctgcgtgct 420  
gtgcagtgtg gactgtgctc tntcatntg tcaattaatg tt 462

<210> 27267

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-B7

<400> 27267

gtgtttcaga cacctaatgc agaactacgt gaagcaatth gttggatccg agtacatgta 60  
tgctgcagct agagcatata ggagggaggt gttcgaccat tacttttccg atgtccaaga 120  
aattcccaag gtgtctagtt ggttacatga gcatcatgat agtttgtggt atcgtagtgg 180  
gtttaatcca gccatcaagt gtgactatgt taccaacaac atagcagaag tgttcaacaa 240  
ttggattaag gattggaaag atctgcctgt ttgtgacttg gctgacaaga taaggaagga 300  
aatcatggag ttgtttcaaa agaggaagga gataggacag aggttgcaag gtcgaatact 360  
accctnctg gtccatatcc tncatgtaag gactagaggt ttaggtcact taacagttaa 420

gaaagctgac aattacattg caaaggtgag ggataat

457

<210> 27268

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B8

<400> 27268

gaagtcctgc aagcaaatga aagagcggaa gaacagggcc aagaagatcc gtggtgtcaa 60  
gaggaccaag gctggtgacg ccaagaagaa gtaaacagtc atttatattt ctgtattact 120  
gtcctgaact ctgggtgggc gtctagttgc aatgtcataa ttatggctgt gtttaggtttt 180  
gttccgcact cagcagtaag tgaagttttg taattcctgg atgtgaacct acccggtattg 240  
gctgtagcat gttgtgagat gagaaggcta ttttgtcatg cagttgtgtc atttgcaagc 300  
caatccattt tgtcatgcag ttgtcatttg ctcacctctg atccatatca gctttgatcg 360  
tgctgcattt gcgcacaaaaa 380

<210> 27269

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-B9

<400> 27269

ggagcgtagt ggatgatgaa gctgggaaat caaatggtgg tctcaagagt gatccaatgt 60  
gcaatgcgtg tgagatggct gtggtatgga tgcagaacca acttgcccag aacaagacac 120  
aggagctcat cctgaactac attaatcagc tttgcgagcg tcttccgagt ccaatgggag 180  
aatcagccgt ggactgtggc agtcttgcgt ccatgcctga cattgcgttc accattggag 240  
gcaataagtt caagctgaaa ccagagcagt acattctgaa ggttggtgaa ngacaggctg 300  
cccagtgcac cagcggattc acagctatgg atatcccacc acccgtggc cctctctgga 360  
tcttgggtga tgttttcatg ggagtctacc acaccgtctt cgactatggc aagc 414

<210> 27270

<211> 431  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-C10  
  
 <400> 27270  
  
 tcgcccacgc gtccggagga acaaaatgag ctcgtagaat cagctgcaga gatgctttat 60  
 gggctgatcc atgcacgata cattctgacc agtaaagggc tggctgcaat gctggagaag 120  
 tataggaact atgacttcgg gcggtgcccc cgtgtttact gctgtggtca accatgcctg 180  
 ccggttggac aatcagatat tcatcgatct agtaccgtga aaatatactg cccaagtgt 240  
 gaagacatct actaccacg gtccaagtac caaggcaaca tcgacggcgc atattttggg 300  
 acaacgttcc ctacactgtt cctgatgaca tacgagcacc tcaagctaca gaagcccttg 360  
 cagcgctatg ttccctcgtgt ctttggcttc aagctccata agccatgagc ctcatgtatt 420  
 tggcttcaag c 431

<210> 27271  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-038-Q1-K1-A7  
  
 <400> 27271  
  
 gccagagaca acttgaagtt cttgcatgtt ttgttcgcca ggttccctca gtacaagggc 60  
 ggggacctgt atatcacagg agagagctac gctggccact acgttccaca gttagcccag 120  
 cgcattggttg agttcaacaa gaaggagaag ctattcaacc tgaaaggcat tgctcttggc 180  
 aacctgtgac tggagttctc caccgacttc aactcgcggg ccgagttctt ctggtcgcac 240  
 ggcttgatat cggactccac ctacaacatc ttcacgacgg tgtgcaacta ctgcgggtac 300  
 gtgagcgagt actaccgcgg ctccctgagc acggcctgcg acaggggtgat gagccaggtg 360  
 gcgagggaga cgagcaggtt cgtcgacaag tacgacgtca ccctggacgt ctgcatcttc 420  
 gtcggtgctc atgcagtccc aggtcctcg 449

<210> 27272  
 <211> 318  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C2

<400> 27272

ggccaaccac taaatcagat aacaatttga atagtacagt acagggagga caagtggcaa 60

taggaggaca ataatcacgc tgaataagta ggccccacat cacagtcctt ctggcaactg 120

cacatggttt tatcatttta tttttaaaat tgttttttat ggacattatc tcatcacgt 180

tcctgccaca gaagctcatc aagcatcgga cggcctgtag ttgtagacgt gaaagcttgc 240

atgtggggcc acggcgtcga ggaagatcct ggccgtcgcc ttctgggcca ccgacgcctg 300

ctccttctcc acgagcgc 318

<210> 27273

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-037-Q1-K1-H12

<400> 27273

cccacgcgtc cgccccacgcg tccgctgtga actagaggca tcaagagggt gttttcattt 60

gcttgtggtt catcgtaact nctgttttgt gcatgttgta ccacagggtat ctagcaggtc 120

acttaagaag gccattggat tcaaaactca tgtacgctac tgtgatgcat tgatggtcct 180

gaagtcattg ataatgtcaa aggtaccctt tagatcaagc attccttcca agttgtccaa 240

atgttaggca tggaaggaac atggagatag gaggtggcaa tggatgaatgg agtntatttt 300

gttcgtataa tacttttcat tcatngtctc atttacattt aatacccttc tcaaaccctt 360

taaattatct atgatctatc tatg 384

<210> 27274

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H2

<400> 27274

tcgccagctt cgcacccgc aagttcccag tcagtcgagc agccagcggc ggtgccaaaga 60



agggcgaggt gcgagctcca ctccccacac ctcagaagaa aaaggtgatg gcgcaactgc 120  
 cgccgcgggc gccgagcgcc ggcgcgcagg accactggcc gccggcggcg ggggagttcc 180  
 tgggcttcgc cgcggccagg cgcggcgcgc accgccgtc cgcgagcgac tcggccgcgt 240  
 tcctcgaggc cgtgcccatt gacgacgacg tcgtcattgg cggcggcagc tcggcgggcg 300  
 acgacttcga ccgtctcgac cagcaccagc ttctgtccat gttctccgac gtcgacgtct 360  
 tcgtcttcgt cttcgtctac ggcagcgccg gtgagagggc gcagcttatg gacgcggtgg 420  
 gtg 423

<210> 27275  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H3

<400> 27275

gacaagcagt ggctggacaa gaatgcatct tacatggact tcaatgaggt gctgaagtcg 60  
 acgacgagcc cagctggaga gggagcttat gctggacgat gtcatccgca tcgaagacat 120  
 gccgtcatat agcctgcttt gctagtaacc aaaataccaa attcgccgga gaacagaact 180  
 gagttgatgg ttcaactgta tagtacctcc ctttgtctga tttctgggag gatttttttt 240  
 tagcaacaaa gtagagtgtc gacgtactgg tatcatgctt aatttgggct aatgatgggt 300  
 atatgcacaa aataaaaata tatattat 328

<210> 27276  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H4

<400> 27276

cccacgcgtc cgccgccttc ttcttcttct tcttcttctc ctctgccctt gcttgtcgtt 60  
 tgctcgtgct cccccacccc ctttctgatt cagcaagggg tccttccgcg gcgcggcgcg 120  
 tcgccatggg caactgctgg ggcgccaaga tcagctccga cagcccgtcc cgcggcgcct 180  
 catccccgtc agggacggcg tccaagttgg cgagcaggaa cggggcggcg gcagccctga 240

gcgggtgcag cagccacgcg tcgtccgcgt ccatgctgcc gacgccccgc agcgaggacg 300  
 agatcctgga gtcggccaac gtcagggcct tcagcttcaa cgagctgaag accgtcacca 360  
 ggaacttcag gccggacagc gtgctgggcg aaggcggggtt cggatccgt 409

<210> 27277  
 <211> 212  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H6

<400> 27277

cgtccgaaat aaaaacattt cgggtctcatc ttcttcacac tccatcctcc atcactccag 60  
 ctgggtggtc taggaccgac ttagcgaatt tcgaagcaag ggactgaaga ggaacctgag 120  
 gaaggcgaat atgatctacc ggaactggga gctgttctcg tccacagtcg tcatttgggt 180  
 cggcttcgcc accgtcagcc tcgccgctat ct 212

<210> 27278  
 <211> 316  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H8

<400> 27278

cggacgcgtg ggcggacgcg tgggccggag atcagtagtg caagtgaag ctttcaaccg 60  
 ggtccagcaa catcagttga tgattcagta tcaatgtcac aacatttgcc tgcttcattt 120  
 ggtgatgctt cacggatcag cagcactgat attgttgggt cacctagtgt ccaagagaca 180  
 gatgacatgc aggttgatag tcatgttgct gaggactcag agccagaaaa cgatgatctt 240  
 tatttatcaa attgtcgaat ttctctgggt ggttttgaag agtaagagtt ggtaatgctt 300  
 gtcatgctga tacgta 316

<210> 27279  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H9

<400> 27279

ctcaaaaggc aaacattgat gcagcgggtga ataagttttc agataacttc acaaggatgt 60

tgttccatta tgatggtcgg acaactgagt gggatgaatt tgagtgggtca aaaagggccg 120

tccatgtgag tgtcaciaaag caaaccaaat ggtggatgc caaacgattt ctacatcctg 180

acattgttgc ccgctacgac tacatattta tctgggatga agatcttggg gtcgaacatt 240

ttaatgcaga ggcgtacatt aagcttggtta ggaagcatgg gcttgagatc tctcagcctg 300

gtttggagcc cgataaaggt ttgacatggc aaatgactaa acgaagaggt gatcaggaag 360

tccacaaagt aactgatgag agacctggct ggtgtagcga cccttacctg ccaccatgtg 420

cagcgtttgt tgaaatta 438

<210> 27280

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-038-Q1-K1-A1

<400> 27280

nccacgcgtt cgcacacgcg tccgcccacg cgttcgggtg acagtaagcc cgggtgtacac 60

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acactacgca gataagtatc tatctgaacc taagggagag acaactcact aattgtcatg 180

tacaattaat atctagctag gtaggtatgt gagggcacat ttgacgagct ttgtagactg 240

atcttgcaat aacctgata acttacaggt ggatgctgta acctttatct ctttttttag 300

gtctgtattg tttgtcgaca caagatttga gatatgattc cgtttgtcga ctgtattaat 360

cagaattaca agtacagcgt tt 382

<210> 27281

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-A10

<400> 27281

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gctttatcgc gatccactat acatgcgta gcatcaacgg cgacggtcgc aaggatcgcg 120  
atgtaaaacta ctgtaccaga gattaacaga tgatcccaat gactgctgaa tatgtaaaac 180  
taacatgtga acacattatc atatataatg acaagtatgt tgctcactgc ataactcctt 240  
taatctatct ttgcactagc tctatcaciaa gtcactgcgg tgctaaacca tcattaatca 300  
aatcgacgcc tgattacaaa gcttactata tgaccataaa cacgtcggaa ctcatgtacc 360  
atactgtgat ctatatgaat gctaagtacc tacgac 396

<210> 27282  
<211> 400  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-038-Q1-K1-A11

<400> 27282  
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cacgcgcgcc gtcgtcgcca gcccggggtc atttctccgt tccttggtgc ggtggtagcc 120  
gagcgtccg gccatggcgt tctatcgagg cctcacgcga gtctcgagac tgcgatcacg 180  
catggcgcan gaggccacca cgctgggggg tgtgaggtgg ctgcagatgc agagcgcgtt 240  
cgatctcgat cttaagtccc agttgcagga attgattccg gaacaacagg atcgcttaaa 300  
gaagctcaag tcagagcatg gaaagacca gcttggaac ataactgtgg atatggtcct 360  
tggtggaatg agagggatga ctggaatgct ttgggaaaca 400

<210> 27283  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-A12

<400> 27283  
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tgagggggct gcaagtgctg ctgcccgctg tgcagaggag aagaaggaag agcccaagga 120  
ggagtctgat gacgacatgg gcttcagcct gttcgactga ggaggccctc gctaccagc 180

cattagcaaa ttcccttatg ctgtccaaga cttatcttac gctatgtctg tagccttttg 240  
 ttattacaag tactcaagtt ttgagttttt gagatgtggc tatgacaatg tgatgaagaa 300  
 ccctaaacca tcgtattaga gtgaaacttg tttctatata gagttccaag tttcttgaac 360  
 ctc 363

<210> 27284  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-A2

<400> 27284

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 cagagagatt caggtgcccc gaggtcctct tccagccatc catgattggg atggaggctg 120  
 ctggaatcca tgagacaaca tacaattcaa tcatgaagtg tgatgtggat atcaggaagg 180  
 acctctacgg caacattgtg ctcatgggag gtctgactat gttccccggg atcgctgac 240  
 gtatgagcaa ggagatcact tcccttgac caagcagcat gaagatcaag gtcgtcgac 300  
 cacctgagag gaagtacagt gtctggatag gagggctgat cctagcctcg ctcagcactt 360  
 tccaacagat gtggatatcc caagaggagt atgatgagtc tggccc 406

<210> 27285  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-038-Q1-K1-A3

<400> 27285

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 cgactgctgg acctgggtga ggcatttca actgcgcccc tcccctcgc cgcagcacc 120  
 agccccctta tgccatcccg ctggtctcaa cagctacact gtgttctctc gtcctcacc 180  
 ctgggtgctc tgtaccgtcg taccgatgct aggcattggac ggacgtcaaa gtgacttccc 240  
 ctcaactctc gcgggtggcc acatataaat tgtccctaaa taaaacgacg ctgcaattga 300

cgtcttcaag ggaatcgaca aacccttttg tggagcaggc catacaattc tncgtagcag 360  
 ctgctaaagc gaccattatt gataaggaga ggaaggatgt agtagataag ttactgctgc 420  
 aaggtctgaa catta 435

<210> 27286  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-038-Q1-K1-A4  
 <400> 27286

cccacgcgtc cgccccacgcg tccggaaact ctttcggcca gtggaaaaac gatggaccat 60  
 gtggatttgt tgagagaaca gttgaaaatt ttgtcagggg aggttgcgtt taatacaagt 120  
 gctcttaagc gcctcacaga ggaagctgga agaagcccaa agaacgagaa gattcagatg 180  
 gaaatgaaga agaagaccga tgaaattaag gggaagcatc aacagatagc atctttggag 240  
 agagagatag ctcatgcaac attaggaact caaggaaagg tcgatacgtt agagcattca 300  
 ccgtcttata atgaactact tgagcagctc aatgagaaat ctttagaact tgaggtgaan 360  
 gctgcagata atagagtgat acangatcag ctgaatgaga agataacttg atg 413

<210> 27287  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-038-Q1-K1-A5  
 <400> 27287

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 agtgcaccaa gatcaactga tcgatggaac catagtggag gtagctcgct cgttggatgg 120  
 cagcgtacgt ggccatcagc agcatgcagt cgtcgctcgta gcagagatgt cctagctacg 180  
 tgtgtgtcat gcatcagact ggcacataat aaagaagtag atcatgcacc cactagtgat 240  
 cacttcgtct agtgtccctc cgttcaatgt cgtcgctcgtc gtcgtgtacc ttacgtgaca 300  
 tgctgtagca cgtacgctag cagagcagca cctcaatgtc cttggggttg ctttgctggc 360  
 tctctgtttt cgtcttgtgt tgcttttaat actgcacaag gttctaaatt ataataatga 420

atactttttt tgt

433

<210> 27288  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-A6

<400> 27288

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gagtatcata gatctcgaga gattgggtctc atcagctact gctcctgatg atatcgatag 120  
ctctggcctt cacagctaaa tgcattattca gcaaatcaag gatcccagaa tagttctttg 180  
gtttctgttt ttacttcttt tttctaggtg ctcatgtaaa tagtccttac aacttgtgaa 240  
tgcgacttct attgctgtcc cctgcacaat cccagggtca gaactgcagc gagcagctcg 300  
tgcttgcata actatgacac ttcataatca tgtactcatt gtggtagatc ttgta 355

<210> 27289  
<211> 213  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F4

<400> 27289

tcgcggacgc gtggggcgtgt gctcgcatta ccttccattc catcccgcct ccaaaccgga 60  
actccagttc gccccgcacg gagggcgccc aaagccgaga agaagccgcg ggccaagaag 120  
ccggcggagg aggagccgcg tgccgagaag gcgcctgccg ggaagaagcc caaggcggac 180  
aaccctgtcc cagcaagctt gtcctatctg caa 213

<210> 27290  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F5

<400> 27290

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ctgagggtag gatattttgt actgttccat aagaaattta caccaccag ttgatggaa 120  
 aaaaaagcta ttggcttaca ggatcatgct tcggtttatt tggcctgcaa ctttttatat 180  
 tgtgcacttt ttaatagcag acaacacata ttatgatggc accacagtat aggggcagtg 240  
 cagcatttaa gtttttactc ctcgtaatat tacttattgt gattctgagc tatattaggg 300  
 tgaaacaatt tcataaatc atgaattata acttataagg gaatagaaac tggaatgttt 360  
 ctttgtgatg tcctaccttc ctcacctgca tatctgtatc cttgcacgat agctataatt 420  
 taacagagaa tgcaatagtt ttaaccatgt atagaaac 458

<210> 27291  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gattccagtg aacttgcttt taagctagct gctatctatg cttttcgaca gtgctacact 180  
 tctgccaaac ctgtaatat agaacctgtg atgaagggtg aactcaaatt tccaactgag 240  
 tttcagggca cagtaactgg tgatatgaac aagagaaaag ggatcattgt tggaatgag 300  
 caggaagggtg acgacaccat tgtagtttgc catgttccgc taaacaatat gtttgatgat 360  
 gcaacagcta ttgatcagc gactcanggg aaagggtgaat ttacgatgga gtacctggag 420  
 cataatgttg tatcgcagga tgtgcagatg caactagt 458

<210> 27292  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-037-Q1-K1-F7  
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 atctccagcg tttttgtcaa tcttgtaaat gctgacttca ccgcaaagca gaggggagtt 180  
 cgcatcactg aggagaggat catcttggac ggctcacctg agacgcctat cgactacatt 240  
 caagttcaga ttgccaatgt caagtccaaa tttcctagtg cgatatctga gactggagag 300  
 atcacagtgg aggggagagt gaaggatggc gttcctcatc taacaaagggt tggagcattc 360  
 caagtggatg tgagcttggg aggaagcctg atcctttgca ggcaagttga tcagccaggt 420  
 atgattgggt cggttaggaag tggcttgg 448

<210> 27293  
 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F8

<400> 27293

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 tgagccgtgg tggtagtgcc tgttgtggc aaagtctctt gggttatctt tctggaagcg 180  
 ctgagccttc ataaccagca ttggcaccag ctgcaagcgc ttaacttgct gataaaccat 240  
 ctcatgcata tactgattct gccaatcata ttgctgctta tgttaccatt catacctata 300  
 actactacag ggggtatttt atataacact gcctacttct ttacagactg ttctttatcc 360  
 t 361

<210> 27294  
 <211> 61  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F9

<400> 27294

tgaattggag tgcaagcaac tcgtttagcc ctatccatt cccgcgcta gccagagat 60  
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<210> 27295

<211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-037-Q1-K1-G1  
  
 <400> 27295  
  
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 ctgctatgct ggtggatttg gttaccatgc ctatgggaaa gctgggtggg caagaagagc 120  
 gaggggtactg tctgtgcaac ttgagaaaac agacagcggg gaatggcgag gagtcaagtc 180  
 catcaagaca tggaagaggc ttgatgataa acatctgagc acaattgact ctgaggttct 240  
 ctggaacaga ggctctaata ggaggcgcg gaaaaatcct gatggtagtt aacttttgat 300  
 gcagacagga atgggtgcttc ctaagggatc ttttcattgg gggggattgg tggattgcc 360  
 gtttactata gaatcagaaa tatgcccaag tgtgtacatg ggggagaaag tcaaatacag 420  
 acacatacac gc 432

<210> 27296  
 <211> 134  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-037-Q1-K1-G11  
  
 <400> 27296  
  
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 cgtttttcta ccagctgttg tatgcgaatc catctgtgcc ttcacacact aatgcactcg 120  
 ctgttgctgc tggc 134

<210> 27297  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-037-Q1-K1-G12  
  
 <400> 27297  
  
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 cgatccttct gcttctgaac caggattcag atatcttcgc agggtttggt gataggcagc 120

gctatttccc agtaacagtt tctatttctg gctatttatt gttgacagcg ttgtatagga 180  
tatgggagga gacttggcct ggcaatggag gatgggctct tgatatcggg ggcccgggct 240  
ggctgtttgc tgtgaagaac tttgctcttc ttgtgctcac tttgccgaat cacatactct 300  
tcaaccgctt catgtgggat tatgtcagac agacagatgc caagctactg ctgacgctac 360  
ctctcaactt gccttcgatt ataatgacag acatacttac tattcgggtg ttaggattgc 420  
taggagctat gtactctctt gccag 446

<210> 27298  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G2

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gggtgtgcttt ctggctacga ccagcttcag atcctctttt tcggaaagaa gtactgctcc 180  
tgcggtgctt aaatggagaa aaatgatgac gaacaagagc agttcgcttc cggttcaacc 240  
cagtcaggat cttggtaaag tttttgcctt tcatatcgaa gaaattaata atttatgtag 300  
gagaatTTTT tcaacattcg tttttggcgg agacattgat cttaaaaaaa ctcgtaactg 360  
tcctactagg tgggtgcatt ggttcccaa acatggcatc aggggtgtgtc taatctgccc 420  
ttctgtgcaa ccgggcaatt tttcttacat ata 453

<210> 27299  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G3

<400> 27299  
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cggaagcgag ctgcccggg cgggtgcctc agaggccagc cggagccggc gctgtacaac 120  
ggaggcattc tcaagttcgg cagcagcagc agcggctgcg gcgatccgga cgggtaccgc 180

acgacggaga cggcgctctt ctccccggcg ttcgtggtgt acaacctcaa caagaccacc 240  
atgtacacct tctcatgctg ggtgaagctg gaaggccacg ctcttcatga acgagtacaa 300  
cgtcatcgag acctgcgacg accccttttt caccgtcgac acgtacg 347

<210> 27300  
<211> 354  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G4

<400> 27300

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agggtgtcaag gccatgtcag tgctgccctt gttcttggtg gaggaggattg tactggacca 120  
catcttcaca ctgtttatcc acacggctcc actgatactc ttctttttgc cacgatgggt 180  
tctggatccc ttgctgcaat gtcagtgttt gaatcgaagt ataaagaatg cctcactagg 240  
gaagagggaa tacaactggg gtcagaagca atatgtgcag gtatcttcaa tgacttgggt 300  
agtggaagca atgtggatgt ctgcgtgata accaatggga agacagaata cttg 354

<210> 27301  
<211> 458  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G6

<400> 27301

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ttcaagaccg tactgcaaaa ttcaggaaac atgccaccgc gatagctgaa tgggataaga 180  
gaattctgca aaacagaaat gttcttatta ggcttgaggc tgagggtggct aaagttgttg 240  
aaacacaaac aggcttggag cgtcaacttg aattgataga aactcatcag cgagaggtag 300  
acaaggctct acagagtatg gaagaggaag ctgaacgcgt attccaggat gaacgagtgt 360  
tacttcatga agatggagct gcttcagcaa gagatactat gtatgaacaa gcagaagttg 420  
tcgagcatta actgcaacat atgacagaac aagtaaaa 458

<210> 27302  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G7

<400> 27302

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 cgcccttctg tacagatgtg ggcacatgtg cacttgctcg aaatgcgcaa acgaattggt 120  
 tcgagggtgga gggaaatgcc cgttgtgccg cgcaccata atcgagggtca tccgagcata 180  
 cttcatcatg tagatacaaa aggaagacag caagaagata gaagaggccc aaattgtttt 240  
 tgggtctgtg ggagtcgtta gcgggtgtg tattcaatta tggtcattct ctctaagcg 300  
 tttggttaag gttttttccg gcttcattac gttttggtct gcttgccta ttgtaagtaa 360  
 tg 362

<210> 27303  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-G9

<400> 27303

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 cgaatagact tcccatggca gctattctgt tgaggatgtg cgaaagggtgc actgcagagt 180  
 ctgagaagtg agagaaataa atgacaagtg atgtttaccg ctcaccaat ttaaccaat 240  
 gccacagtga tacgattatc tctgctaaag ggataattgt ttcaactaaa ccaagcacca 300  
 cagttggagg tcaaatcctt ggaaggcaat attgtgaagt tattgtaact tgtgtgctaa 360  
 aacgagattc aattttgcct cgccctgtag tgatgtctct gtggtgcttt tgtgactgat 420  
 catctctgga agcttttgtg aatga 445

<210> 27304  
 <211> 439  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H1

<400> 27304

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cgaccggaag ctccgggacc tggggctgca gttccggccg gtcagccagt cgctttacga 120

cacggtgaag aacctccagg agaagggaca cctgccggtg ctccggagagc ggacgacgac 180

ggaggccgcc gacaaggatg cccccgcggc cgagatgcag cagggaggga tgcctatccg 240

tgcctgagag ggcgatgcca cacatgaaca caaagcagtg ttcatactgc tgccctgcac 300

ctgcacctgc ttcttccccct gctgtgtaaa caggcctgtg tttgttctgg ctgatagtga 360

tgtaccctta gaactggacc ggtatgggtcc gtcttgggaa ccatagcgag gtgattaaac 420

tgggtaatgt tggatgttc 439

<210> 27305

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H10

<400> 27305

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ggaaaatggt gaggatgggt taatttatgt aggaacatg gtaaattccg ctaccctgga 120

acaaatattc ggtgtctctt ctttggctgc attaccagcc cagttggcgt tggagcaatt 180

tgacaacgaa ctctcgagga aggttaacga agttgtaaat gaaataagac gccagaggtg 240

ctcatacttg aggttaagac aatgcagaag gggatgaacca tctgggtgatt ttttccggtc 300

atcttttagtg gaagacaagg cccctggcgt cttcttctac gtcgaagtgc tttggcatgt 360

tcacaggcca atcccaaggc agatgacctt gagggcc 397

<210> 27306

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-037-Q1-K1-F2

<400> 27306

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aggggcattt tttttcaggg ataaatataa atccgttctc ttgccatggg atttagcacg 120

cacaagcaac gcttgaataa gtcttgcaaa ttcaacacag gttctacgaa agtggccttg 180

gctaataaac gactgcaatg tcgagaaacg acactaagtt ctttcagcgc tttccaccac 240

cgtcgcccaa cttggggccc ttggaaccct tctggaccgc accctttgtc tgcgtcttct 300

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<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D8

<400> 27307

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tgccgcgcct ccatacctcg caccagctct tttctctggc cacttctcgc ttgaaccgcc 120

tccgccgccc cgacctcgcc gctcgtctcc tcgacctcct ccttgccctcc gccccgcct 180

ccccggggct ccttgcgagg gcgctctccc tctaccggg acccgacgat gcgctccggg 240

ccttctctc gtctgcccc gccaccgct cccctcctcc gcaccttctc cgcgctacct 300

ggatacagtg gttctccaag aaaggcgaga cagccaaggg ggaggagctg cttgatgtga 360

tggaatcaaa ggaggtagcc ccgaattacc ttacctaaa tgctatcatg caggggtatt 420

gcaaggaggg gaatgtcggc gcagcgatgc gtgtgttca 459

<210> 27308

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D9

<400> 27308

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aaagaaaaaa taaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaac aaaaaaata 120  
 aaaaaaaa gtcttagcat ctaaactttc caacctaatt tttttcttta ttgcaacacc 180  
 taaactcaac taaaatgcca cctaatttca attt 214

<210> 27309  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-037-Q1-K1-E1  
 <400> 27309

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 aataataggg gggacacatt tacatatcga gtgtatacaa attacaaaag ggtcctttcc 120  
 ttttaaatga cccatactta attcccccta attttaaatc aatagccctt gtaaaacact 180  
 ccctttacca ataaaaagcc cgttgtacca aaatctatct tctggaaaaa cattaccatt 240  
 tcccaaatta attccttttc aaatattccc catttgacca gctttaataa caacta 296

<210> 27310  
 <211> 354  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-037-Q1-K1-E10  
 <400> 27310

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 tgatcctggg cttaagctgc aagatcagat tagaagaagg tacttggtta aaggtcctca 120  
 cagaccacaa cctagtttta agtatccaca aaaaaatcat agtgggcaag ccacgtcgat 180  
 ttaaccacgc atggtttgat gaggacagtt ggattgaata tagtgagaag gtggatagag 240  
 ctttttgtct ttactgctac ttgttttagag attgtattga aggtcaggcc ggaaatgatg 300  
 cttttgtaac aaaaggtttc tcttcctgga acaagaaaga tagattagat gttc 354

<210> 27311  
 <211> 393  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3067-037-Q1-K1-E11

<400> 27311

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ttaataatac caatattcta ttcgtacgta tgccattgta cttccaatat ctatatcttc 180  
tctgtatcta atatagcatg aatcttaatt ccacttatgt actactccaa cttctgtagt 240  
ctgtaaccac atggatctgc aaggaatact acatgcagtg ttaatcatga tcctccttca 300  
tttacaatgc caaccttcaa taccgcttat gttgacttga tcctgaaact tactgaatat 360  
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<210> 27312

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E2

<400> 27312

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ccgcggcttc ggcttcgtca ccttctccac ggaggaggcg atgcggaacg ccatcgaggg 180  
catgaacggc aaggagctgg acggccgcaa catcacgctc aacgaggccc agtcccgcgg 240  
cggccgtgga ggcggcgggc gcggtacgg tggtggccgt ggaggcgggc gctacggcgg 300  
tggcggggcg cgtgatggcg gcggcggcta cggcgtggc ggcggcggct acggtggcgg 360  
cggtggctac ggtggtggtg gtggcggtc cggcgtggc aaccgtggcg gcggtacgg 420  
caactccgac gggaactgga ggaactgagc ggt 453

<210> 27313

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E3

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 ggggtgcgtc ggcgacacga tggagtcaat ccgctccatg cagatccgcc aattgctcac 120  
 gcagatcatc agcctcggta tgattgttac ctctgcatta atcatatgga aggggttgat 180  
 agttttcaca gggt 194

<210> 27314  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-037-Q1-K1-E5  
 <400> 27314

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 gggcatgtca tcatgttatg ggaggatgat tattatgttg cttttttata ttaattctat 180  
 attatctttt tttgtcttag tttttatttt cattgttatt ttcttttttt atttaattgta 240  
 ttttattttt attatttttt tttttatttt tttttatttt tattttttct tattactttt 300  
 ctttatttct attattttatt atttggtttt ttaattttat tttttttttt tatatttttc 360  
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<210> 27315  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-037-Q1-K1-E7  
 <400> 27315

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 gtectcaggg ccaacgtcct gggcatcaac ctcaacctgc ccatcaacct cagcctcctc 180  
 gtcaactact gcggcaggcg cgccccctcg ggcttccagt gcttctgact atcacagcc 240

catcgatcga tcgatctgga ggctaaataa tttctccaag ctgctagtat acgtacgtac 300  
 gttgatatat atgatgtagt attatatata tgtccatgca tctngtnccg tatcgcatgt 360  
 tgttgttgtt gttggtggtt ttogatgac ctgtctctgg tataaatatc attattatta 420  
 cagtacgtgt gtgacctg 438

<210> 27316  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-037-Q1-K1-E9  
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 ccaaggctctt cttcgggtcc ttccggcgcc accagcagca ccaggcaatt gcacttgtgt 180  
 aagaaatgga tgctactgcc ggttaattgc gatacagatt tatatggaca tagatattgg 240  
 ggccatgtgt aagggcggaa gctgttccca ccgcgtcaat aaggggagtc ctgctgggttc 300  
 taccaggaag atccgttcca cagcctctca aggtcggatg gcatctgaca cagctagggt 360  
 aacgaatata gacgcatcaa agctgaataa cctgatcttg gcatcattca aactcttgtc 420

<210> 27317  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-037-Q1-K1-F1  
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 aaactacagg aactgggtctc actttcatac cagattagta ctgggcaatt tgaaggaatg 180  
 caaccaatag gtgtgaagct tttgtgtttg ataatggaca agttcggcaa ggcagtagat 240  
 ccggaatttc ctggccatat cttgctggaa caatttcagg cccaacttgt ttctgctgtt 300  
 agaatggcta taagcaactgc ttctggtcca cttcttttgg aggctggact tgaactcgct 360

tcaaggggta ttaccagcca cattattgggt ggggatagac tagcttttag tcgcttggtt 420  
tctctgataa cacgcccgtt aagtgacat 449

<210> 27318  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F10

<400> 27318

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caatggccgt catggcattc gcgggggatc aggccagaa cttccactac tccccaatgg 180  
gcaatgccac cagccagggt gcgaatgtga cgttcactgc acgcgctgag agaacacgtg 240  
tggcgttcta tagcgtgtac tacaacacga ggagtgcga ccacagctcg ctgtgtggcc 300  
cggtgattga cgatgtccgg gtatgggcat tgaacgccgc ggctgggttg aaggcaagta 360  
ttggactgggt tcttggcatt gttgggtgctg ttggcatggt gctgttctga aatctgaatc 420  
tctcggtgcc agtgggtcttg ggaag 445

<210> 27319  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F11

<400> 27319

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cgagggttct acatgggtgga actggtttctg ttgaataag ttgaactata gccgccctca 120  
tcttgtggag tttgtggact ctgagcaaat cgtcatttctg aacataacat ttttaaattc 180  
ccctgcttgg agtatacatc cagtgtattg cagcaatgta gtgggtccata gtgtcacaat 240  
tcagacttca ttggatgctc cacttaatca tggaatcggt ccagattctt gctcaaatat 300  
gtgcatcgag gacagcagta tcagtgttag ccacgacgcc atatcactaa aaagcgggtg 360  
ggacaagcaa ggcattgctt tcgggaggcc aacctcagac atccacataa gcagactgga 420

tctgcagtcc tcaactgggcg ccgc

444

<210> 27320

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-F12

<400> 27320

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gccggaataa gaatgagaca ttgctatgtg gagacttgat ggtaaagggg gagctgtctg 120

aggaggacgg ggtgttttct tgcaatgagg tatgtggccg cacgctcgcc tgtggcaacc 180

atgcttgcaa ggatatgtgc caccagggc cttgtgggga gtgtgagctc atgccgagga 240

aggtcagtac atgtcattgc ggcaagacca ggctgcagga gaggagggcg agctgcttgg 300

acgcaatccc cacctgcgat aagatatgcg ataagaaact gccatgtggg gtgcacaagt 360

gcaagggtcaa ttgcccata ggaagatgcc caccttgttt ggtgctcggt gag 413

<210> 27321

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D7

<400> 27321

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accgaagtgg taccgcgggtg tccgaaggca tggcctcatc atgggctgct ccgtcacagg 180

cgtcaagaga gagcgcgggtg actctccctt ggagcttggg cccaaggcgg aggatgtcag 240

caagccagtg aatccgatca ccttctctt cgccttctc gtaggaacga tatgtgctgc 300

ctactatgtt ctggtgccta ttacatgtg gataaaggac cagatcgtgc caaaaggcat 360

gccaatctga gtgaaggga tgagctgcat ggaagagagg atagccaacg tctgaatttt 420

actcttctct atattagacg cttctgcct gttttg 456

<210> 27322

<211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C12

<400> 27322

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 atgattactt gtggcatcgg tctttccgcc atttttcctt tatgtagcca tccattttgc 180  
 cttcttgctc cttggttttt cttgttgcatt tctggtttga atacgtttta tttttttgctc 240  
 cacttctata atatagcttt caaacagcgc tgaagggtgt tctctactca aagatattcc 300  
 tgctaccaag gatggaaggg ttgattgggc acaggatttc ttctgcaaac cagcatttct 360  
 gacagtgtct ggacagctta atggtgaaac atatgcttca gctctatctg atatttacac 420  
 atttgggtcca acgttttaggg ctg 443

<210> 27323  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C2

<400> 27323

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcgac gcacgcagag ccgcagagat 60  
 ccgtgacact gcaagttttg aaaactgaac tgtaagatgg catcagcaga gctttcccgt 120  
 gaggaaaatg tgtacatggc gaagctcgcc gagcaggcag agaggtacga ggaaatgggt 180  
 gagttcatgg agaaggtagc gaaaactgtt gactcggagg agctcactgt ggaggagcgc 240  
 aacctcctgt ctgttgcata caagaacgtc attggagccc gccgtgcctc atggcgcac 300  
 atctctcca tcgagcagaa ggaggagggt cgaggcaatg aggaccgtgt aacactcatc 360  
 aaggactacc gtggcaagat tgaaactgag ctcaccaaga tctgtgatgg catcctcaag 420  
 cttctcgaat c 431

<210> 27324  
 <211> 449  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-037-Q1-K1-C3

<400> 27324

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cggccgccag cgcctccgtt cctcaacgcc tgtttgcct tgcattggccg gagccagacg 120  
tcgcaccttg cctccaccct cgcattccga tcaccgcgtt ccagctcctc tccgtctcgc 180  
tgctcctcct ccgctcgcag agctgagctg atcgatggac caccgagcagc ggccgccagcg 240  
gcagcagcac agtcccagag gcaatgctcc tgggagcggg aggtgcggct cctcgtcgcg 300  
gaagcacaag ggcgggggca agaaacccat caaagtgggtg tacatctcca accccgtgcg 360  
cgtcaagact agcgcgcgtg gtttcgcgc cctcgtccaa gagctcaccg gccgcgacgc 420  
tgaccctnc aagtacagcc ccgaggacc 449

<210> 27325

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C5

<400> 27325

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gaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa attacagaaa attttttaaa 180  
aaaaaccttg ttataaccca attaaataaa aattaaatta ttttcttttg taatctaatt 240  
attaaataaa ttgatagatt ttttaaaaaa tgttttttgt aaaatttcgt atttttttct 300  
aatatat 307

<210> 27326

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C6

<400> 27326

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cgagcgccac atcgctactc ttaaggaatc aatagacttg ggatcaaata tgcaaggcta 120  
cttcgcttgg tctctgctgg acaactttga atggttcgcc ggcttcaccg aacgttatgg 180  
cattgtctac gtcgaccgca acaataactg cacgcgctac atgaaggagt ctgccaagtg 240  
gttgaaacag ttcaacgccg cgaagaagcc cagcaagaag attcttacgc cagcttagaa 300  
atcggggggc tcatgatgtg ggtgcagccc ataaaaaact ggtgtgtggt ttcgaaccga 360  
aaatcttctg tttttttccg ccacgagagg ttctggaggc atactctcca gcaccgtggc 420  
taataacgca ttgttccaat tcagtctggc cttgtcat 458

<210> 27327  
<211> 453  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-037-Q1-K1-C7  
<400> 27327

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ggctgaacag gaggccccag tcgtggttga ggcaccaacc ccagttcttg gggagcctat 120  
ggacttgatg actgctctgc agctcgatg gaagaagtca agtgctcatg acggacttgt 180  
gaaggggtctc cgtgaggctg ccaaggccat cgagaagcac gccgctcagc tttgcgtgct 240  
tgctgaggac tgtgaccagc cagattacgt caagctgggtg aaggcactct gcgctgagca 300  
caatgttcac ctggtcactg ttctgcccgc gaagactctn ggcgagtggg cggggctttg 360  
caagattgac tctgagggca aggcaaggaa ggttgtaggc tgctcctgtg tcgtcgtcaa 420  
ggactacggt gaagaatctg agggccttaa cat 453

<210> 27328  
<211> 300  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-037-Q1-K1-C8  
<400> 27328



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 tgctgtcgcc gagctgggaa ataggaagct gaatcgacct cgcaagcggg gaatgtatcc 120  
 ttttttgctg caacataaaa aatgctaccc aggcatagct gggtagcttt taacttctgt 180  
 ttgtgggatt tgctagagtg atggtttcga tatatagggg gacttgaatg tctggaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagggcg gccctagttc tagatcgcgga 300

<210> 27329  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C9

<400> 27329

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 cgggtgcaccg tcgcagccag gcgaggtgct ttcagagctc accgaggaaa caacagtgcc 120  
 agacaatgcc acagatgagg aacatggaaa accaggcctg ccctgattca agatcggttt 180  
 caggaccac aagtatagat acgaaacctt actgctacta aaacacaata cctcaaatag 240  
 acgggctttt cttcgctgcc catgggagca gcctgtgaat cgagctgctc ctcttgcgga 300  
 agtcgtgaag gcaaagcatt ggatggaaga agttgtgccg tctcagttcg atgtacaaaa 360  
 atgctcatca caaatcgca cggcacctgc tcggtgcgct tttagcatag tcggtattac 420  
 aattcgatta aacctgtatg 440

<210> 27330  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-037-Q1-K1-D1

<400> 27330

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 agggacgaaa tggcagcgac tgtcgctctg tttttttgcc aacaaacaaa aacaaagcag 120  
 cggatgaaggg aggggaggaa aggaaacagc aaccacatgc gattatttct tggggattcc 180  
 gccctccga cctatctaag cggaccataa ccacgggcag caggacatta tattcttctg 240

cctgcccttc cgttcaattt caatttcact ttctttctct cctctcctcc tgctgctact 300  
 aggttcgggc cgtccgtcct tgctcttgat ctgcattatt taattcggac cattcccccg 360  
 ctgtccttnc cgccgcctgc cggagatgga gatggagaac gggcacgcca agtaccgggt 420  
 ggccgtcatt ggcagcggca actggggcag cg 452

<210> 27331

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D10

<400> 27331

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 acgacagcta gcgcctgctc cccttcgtct gtgatcatgt cttgcagcag cggcaagtgc 120  
 aactgcgggt ccagctgctc ctgcggcagc tcatgcaact gcatgtcccc tgacgtggag 180  
 accgccgccg ccagcagcat caagaccatg gtcctcgtcg cgccgaccac caaggccagc 240  
 gccggcgggt tcgaggcggc caccgagggc ggcggctgcg actgcaacac ctgcaactgc 300  
 ggcaccagct gcggtgctc ctgctgcagc tgcaactgag ccggcccggc cgcccggcg 360  
 atggcgcacg agagtcgaga ggacgacgac gacgaggcgt ataaatataa ttaatagcag 420  
 cgtctaaata agatcctgct aactgca 447

<210> 27332

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D11

<400> 27332

gacagataca aggtttcttg ttctagaatc aagtatttcg ctgatgatta taggggtgtc 60  
 tccaaaatca gcgattatgt gctatcaaat gagcttgtaa gtatggcact agcaatggta 120  
 gcggaagaca cacaaataaa cagagtctct gaagaacttt ctgctgagga gggaaatgag 180  
 atgtgcattc tgtctgctga attacacctt tatgagcaag aggaattgag tttctttgat 240  
 attatgggta gggcgcgtga gagagatgag attgtgattg gctaccgtat tgctaacacc 300

gaccaggcta tcattaaccc agaataaag tcttagacta ggaagcggtc actagatgat 360

<210> 27333  
<211> 338  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D12

<400> 27333

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aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca caaacataaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaat aaaaaaaatg tactttctcca actaaagtca ccaactttaa 180  
attcactgaa attgaactta aaactttttt tctggtaaaa ctatatcaat tcaaaagtca 240  
atcgttttta aacacatttg cctgaaaaaa cctggcgtag caaaattaaa accctatcta 300  
ataaaccttc tatacccctg cagatcctat attaaaaa 338

<210> 27334  
<211> 339  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D4

<400> 27334

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gggcggtggc ggcagccggc ggcaggatct gtgccgcgat ggcgacgtcg aacacggcgc 120  
ggatggagga cggtctgtgc gacctgcgga gcaccatcaa gaagtggaat atcatctacc 180  
ctgtctacct caactccaag aagactgtcg ccgagggccg tcgcatcgcc gctgccaaag 240  
cctgcccgga cccacctgc atcgagatcg ctgactgctg ttgcacatt aagatcccc 300  
acgccatcta gttggataag gcgtaccctc tggatTTTT 339

<210> 27335  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D6

<400> 27335

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tgtctcatta tatttttttc tattaattta tcttttataa ttttaatat ttatatattct 120

tcttttatatt atattttttt aatttttttt ttttatattt atttttatatt ttttttatatt 180

aatttatatta tttatttttt ttattttctt tatttatatt tttattattt tattttttat 240

tatttttttt attatatatt tatttatatta ttttatatta tttttttatt tatttaattt 300

tattttattc ctttatattt ttttcttttt ttatttttat ttttttttct atttttttta 360

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tattt 425

<210> 27336

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C11

<400> 27336

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gggtcttcgt cacatcaccg gtccctcgcg gctcccaact caccocacc tcctccgctc 120

tcgcaagcta gacaggtggg agccgccgtc gtcgtagatg tcgaaggacg gccccgactc 180

cgactcgttg tcgtcgtcgc agatatcgaa agacggccct gagtcgact caccgacgtt 240

gcagatgtcg ggggaaggct ccggcgccgg ggacaggtgg gagccagatc tgagcggcgg 300

cagcggctga agcagcaggc gggcaccgcc ggaccaggtg ctggggaacg tgactcggag 360

gaggactccg actcgcgccg gtcataaggc tcggaagacg atccctgctg cggggactgg 420

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<210> 27337

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A6

<400> 27337

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 ggctgcaaac gtgagctacg cgctgtacca ctacgcccc ttcttctga acctccagga 120  
 ctgcaagttc gtccgggcca ccttcagcgc catcgctcgc cggactgcc ctctctctggg 180  
 gcacgacctc gtgctggtct ccgcggtctt ggcgctcatt gcctcggcct ttgttctctg 240  
 cctcgtctgg atgctcttcg cggaccgccc ccgaaggag gaggtgtccg atctggcgctc 300  
 ggggtcgagg atcgcgccgg tagacagctc tccgtcgtag aagcaagcaa gcaagcggcg 360  
 caacgggatg tctatgacta tgagtgaagc tgcttggtcg catggtgacc agagtttagt 420  
 acagttccct tccatggcta tgtaaaatag tttcgggt 457

<210> 27338  
 <211> 457  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-037-Q1-K1-A7  
 <400> 27338

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 gacacaaggt gaccctgctt tttcagggtg agaaggggta gagaaaatgc ctcgagccga 120  
 ggtccgagta ccaagcgctg cagcgctgaa gtatgagccc cgtgcggacg cgtgggcagc 180  
 aaggttcggc gaggtcacgc atgtgaggtg ctgtccagca ttgagcagaa taatgcagaa 240  
 tacttgccgg atgagccatt gacggctgct tcgctgatca aaacacctcc gtgaacacaa 300  
 acatgaggca cagaagaaat gatgaaaaat aaagggttg taacagtttt ggtgcctttg 360  
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 tgtatgtcgc tgtcatgtgt gcaatgttca atacgta 457

<210> 27339  
 <211> 283  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-037-Q1-K1-A8  
 <400> 27339

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ctggtgtgtc gctgcttgca ctcttcaagg agaagaagga gaagccaagg tcttagatca 120  
 ctttcggtag tcaagaatgg tgtaaaactgc ccaaggctct attgtcaaag ttaaagttct 180  
 gctagcaact cagctgttaa atctgagctg tacctttttg ttaacattgt tacagtatta 240  
 cagagttctg tttccatttt gaagatatta atattgcac ggc 283

<210> 27340  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-037-Q1-K1-A9

<400> 27340

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 ttttaaggact acttcaagag gttgtttaac ttcaagaagg atagggatgg ttattggaag 180  
 tggtttgctg gcaacctggc ctctgggtgg gctgctggtg cttcctcttt gctttttgtg 240  
 tactccttgg actacgcgag aacaagggtg gccaatgatg cgaaggctgc caagggagga 300  
 ggtgaaaggc agttcaatgg gcttgtggat gtctaccgca agacactcaa gtctgatggg 360  
 attgctgggc tttaccgtgg atttaacatc tncgtgttg gaatcattgt ttatcggtgg 420  
 ctgtactttg ggc 433

<210> 27341  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-037-Q1-K1-B1

<400> 27341

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 gacgcggccc acttctctgt ccccgcgggg cagtacgcgg tggagctggg ggccggggcg 180  
 gagagcgcca tcgcgcaggt catccgcacc gtgcccaacc gcgcctacaa cctgtcgttc 240

gccgtcggcg acgcccggaa cggctgccac ggctctatgc tggaggaggc gttcgcgggc 300  
aacgtcacgc agaaggtgcc gttcgattcc gccgggaaag gcgggttcaa gacggcggcg 360  
ttcaggttcg tggccggcgg cgtccgcacc cgnctcacct tttacagctt ctactaccac 420  
a 421

<210> 27342  
<211> 445  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-037-Q1-K1-B10  
<400> 27342

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ccgccggacc aggtggttga gaacgtggcg tagaggagga ggactcggac tcgtataatt 180  
gaaatacgaa gggacccttc tgccttctcc gtaaaccgac gcgaccctgt gagccctcgc 240  
gccaaaggata gggagcaaca ggagaagttt ggcgggtccac gtcgacgaga gcaacagtgg 300  
tgagcctcgc cgtgttgtgt cccgtcttca atccgtgggc ttgaagattt cctgttcacc 360  
tgctgtttctc tacagcacac tcattcctca acgtgcctct aattgatgca ggattatcaa 420  
caactagttt tggaaatctt gcaag 445

<210> 27343  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-037-Q1-K1-B11  
<400> 27343

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gtgacggaca tgggtctcgac catgaccggg gcaagacgca tggggaacca tgggtccaac 120  
tctcacaagg tcaggagtcc caggtcgaag tcggtgatta ggcgcctgaa cgcgcttact 180  
tcatgggcgt atcaggccgt gatctttcgg ctactagcac aagggttaggt gctcgcaggg 240  
cttctatacc ggcagtattc tctacgactc cgcgtgcttt gaataatatt tcggtgaaga 300

tcatcgatct actttgcaat gctagatctg acttcactta gactcgactt atgagcagac 360  
aagtgatact gggcatcctg aacaactact agctggagat gctgctg 407

<210> 27344  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B12

<400> 27344

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tttgggtgcg cagcgaaata agaaatgatg tgagaaacct gaaagtttct tgcgtgggta 120  
gaggactaat gggttatctt ggaaataagg gttctatatc cataagcatg tctttgcacc 180  
acacaacctt ttgttttgct tgtttgtcatc tgacctctgg tgaaaaggag ggagatgaac 240  
tacggaggaa ctctgacgtt atggaaattc taagaaagac tagatttcca caggtccgtg 300  
gtgctgctga tgtcaagtca ccagaaacga ttcttgagca tgaccgtatc atttggtctg 360  
gggatttgaa ttatcggatt gccctatcgt actgctcggc aaaagctctt gtcgaaatgc 420  
ataactggaa gcaactgtta gagaa 445

<210> 27345  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B3

<400> 27345

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agggagaaca gggattcacg agaagctgtg gccacgatag aagcaggtgc tgctgcatc 120  
ggtgtaagga cattcaaattg atgttaccag ccaattgcca actgaaacca acgtcctgga 180  
tcaatagcag gaatcttggtg cccaatagtg ttgcttgga acaaaactga tgctcctcgg 240  
gctcaagcct agtgtaggct gcattattca aaggcggat catatcattt ttattcctcc 300  
ccccacaaa attcttgga gatgtcactt ctgattttgg aagctcatca tatgagttag 360  
tgcggtggac tttgtagaga caaagtattt tgaaaggatg ctttgtcatc 410



<210> 27346  
<211> 460  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B6

<400> 27346

cccacgcgtc cgcaaataca gatttgttgt gcgatttacc aacaaggaca tcacagcaca 60  
aatcatctct gctagtatag caggtgatat ggttcttgct tctgcttact cgcatgagtt 120  
gccacgatat ggtcttgaag ttgggtctgac caactatgca gctgcctact gcactggcct 180  
tctgttggct cgccgtgtgc tcaagacccg tggtttagat aaggaatatg agggcaatgt 240  
tgaggccact ggtgaggatt tctctgttga gccagctgat gagaggaggc ctttccgtgc 300  
tctcttggat gttggcctta ttaggactac gactgggaac cgtgtctttg gtgccctcaa 360  
gggagctttg gatggtggcc tggatattcc tcacagcgag aagaggtttg ctggtttcaa 420  
gaaggatgac aagcagctgg atgctgatat ccatcgcaag 460

<210> 27347  
<211> 459  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B7

<400> 27347

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tgcattgacta acttcatgtc atcctcagaa agcccttcaa gtggctgcaa gtcagtcttg 120  
ttgcacacaa tgaccaaagg cttattcata aacagagact ttatactgtg gaagagtgca 180  
gcttgctgag cgatactgta ccacaagat ccagaaatgt ccagaaagaa caaactgca 240  
gccctcaagt gtgccagcgc agtgatgcta cacatttcta tgatgttcc tcttcaaaa 300  
ggccggtcaa gtatacctgg tgtgtcaatc acttggtagc gcaggtaact gtaatctgtg 360  
tggccaacaa acagggatth tgttgtaaag gcatatggct ggacatccac atctgccctt 420  
gtaaccttgt tcatgaacga actcttcccc acatttggga 459

<210> 27348  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B9

<400> 27348

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cgccctgcaa tccgcgcgct tttcgtcggg tgggtgcaac gaatcgacca tgcttcagga 120  
agctttggct ttaagacgaa ggtatacgtg atatggaaat acaaccgaa ggtaggatga 180  
acgagcgccg aagctgtggc tgaaggagct ttggcttagt atgatgatga aggtggaaga 240  
tgaaaccgac ctaaaaggga aaagactact cagcccttga tagctcacct tatgattagc 300  
agtaaagtgc agggatatga atgtaagttt gtccgggttg cgtcccggtg ctataaatag 360  
atgaacagta acaccgtact gttcacgcgg cattgtaatc ttgcgtcact ctgcgatttt 420  
cacgttctag caagccgaag gtattaatgt 450

<210> 27349  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-C10

<400> 27349

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ccgccaaggc agccaagaag ggggctgctc ctgccaagaa gggaaaggca gggcgggctc 180  
ctaagaaggt ggcaaccccg aagaaggctg ctgctgctgc cgctccggtc aggaagggcg 240  
tggccaggaa ggccaagaag tagtctgccc gccttgctgc tggcgagatc cccccctcaa 300  
ttccgcctat agattccctt ctttcatgga ttttgatcca atcgtaatat tgtcagtagc 360  
tctagattcg tcggtagctc cagcatgagt gtcggtggta gttctgtgcc tgtaaaaact 420  
tgggatgggt gatcgctgtg gatcag 446

<210> 27350  
<211> 456

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-037-Q1-K1-A5  
  
 <400> 27350  
  
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 gggatgtgca tcgccaggat aaatcttctc gcgcagtccg cctgttctgt tctcacggag 120  
 aagaggggtgc cgcagcgggtt gcttgagatc gcgggggtcg ccacattctg ggcttggtac 180  
 ccgttgctgg tggcttccct gccgaattgg ttggagaggg tcgcgtttgt gcttttcagc 240  
 ttcaccatct gcgggattca gcacgttcaa ttctgcctga accacttctc gtccgacgtg 300  
 tatgtcgggc cacccaaggg caatgactgg tttgagaagc agacggcatg cacgctcgac 360  
 atcctgtgct ctcttggat ggattggctc cacggtggcc tgcagttcca gattgagcac 420  
 catctggttc cccgactacc ttggtgccac cttcgc 456

<210> 27351  
 <211> 121  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-G7  
  
 <400> 27351  
  
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 acaatggggtt ccctgaaggc cgcgaagccc atcggagttg cggcgcgatgg caaggagccg 120  
 g 121

<210> 27352  
 <211> 470  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-036-Q1-K1-G8  
  
 <400> 27352  
  
 agaaggggtc ctttctcctt ggttgcggtg cgcctccctc ctgtctgcgt gcgtgcaatc 60  
 gacgcagagg cgcgggcgct cgcaccacca cgaccacgac ccgatggctt tcatgcgctc 120

ccgctcaaat gcatcttctg gcatgggagt tgctcctaac attagggaga cattcgttga 180  
gcttcaaagt aagaaggcat tccgatatgt tatcttcaaa atcgaagaga agcaaaagca 240  
gggtggttgat gagaagacag gggctactac tgaaagctat gatgattttt tggcctctct 300  
cccagagaat gactgccgat atgcgctgta tgattttgat tntgttactg gggagaaatgt 360  
gcagaaaagc aagattttct tcattgcttg gtcccatcg acatcccgc tacgtgctaa 420  
gatgctgtac tccacgtcga atgaccgcat caagtacgag cttgacgggt 470

<210> 27353  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-H10

<400> 27353

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gggcgggttc gtgggtgagc ggatcgagat ggcggcgctg gatgttgagt accgctgctt 120  
cgtcggcggc ctcgcctggg ccacggacga ccaactccctc cacaacgcct tcagcaccta 180  
cggcgaggtc ctcgagtcca agattatcct cgatcgggag acgcagaggt cccgcggctt 240  
cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgaag gcatgaacgg 300  
caaggagctg gacggcgcga acatcacctg caacgaggcc cagtcccgcg gcggccgtgg 360  
aggcggcggc ggcggctacg gtggtggccg tggaggcggc ggctacggcg gtggcgggcg 420  
ccgtgatggc ggcggcg 437

<210> 27354  
<211> 447  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-036-Q1-K1-H11

<400> 27354

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ccgcggagag cgatggcgac ggagctgacg gcggcgcgac tgcgcgcgta cgacggcacc 120  
gacccgtcca agcccatcta cgtctccgtc cggggcaagg tctacgacgt cacctccggc 180

cgcggttctt acggccccgg cggcgcctac gccgtcttcg cgggccgcga ggccagccgc 240  
 gccctcggca agatgtccaa ggacgaggcc gacgtctccg gggacctctc cgggctcacc 300  
 gacaaggagc tcggcgctct cgccgactgg gagatcaagt tccaggccaa gtaccccgtc 360  
 gtcgcccgcac tcgcgcncga cgctgaact cgtcagtctc ggtctaaatt tactctgtcc 420  
 tgccctcttg ggtgttcagt gctgtgc 447

<210> 27355

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-H12

<400> 27355

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 tgggctgagc catacctcct cccaacaatg tcagcaaaac catcgccacc gctcatcatc 120  
 gacaaggaga cgatcccgat gggggactca cgccagaaga ctaaaacgct gaacagcagc 180  
 accaggacat aatagagtgg acctctcagc aattcctctg gttttccttc acgtgtcact 240  
 gattttacca gagcttcac c agtgtagaga cggagtccat atatcagaag cctcatggag 300  
 ttcaggaacg ggacaaccgc ggcgaaatac cgtgcttctg tcgaattgct gaacaagggc 360  
 caagatgaca tgaacaggac gccggatagc acgtgcacaa c 401

<210> 27356

<211> 163

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-036-Q1-K1-H4

<400> 27356

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 tgatctgctg ccagaatgcg ggcacactgg cgtgtaggc actgggcagg cccaacgccg 120  
 tggacgtgac catcccagag gtgtcgccag cgcttctcga gga 163

<210> 27357

<211> 266  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-H6  
  
 <400> 27357  
  
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 gaccacgttc acgcatcatg gcccgtgcc cgccgtagt gccacacttt cactagcacc 120  
 cgtaccegcga gctcttgccc tcttgccgtc gcaccatgcc tgcgcgtccg actcctgctg 180  
 cgcactgacc ctgcccgtcc cgcccatcta gaggacgaca gcgccgccat gcgcccgtta 240  
 cgcagcctga tcgcgcctgc tccttc 266

<210> 27358  
 <211> 260  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-H8  
  
 <400> 27358  
  
 agagctcaac caatctgtct cttgctagct gctagggcta ttgtttccat tttgcagact 60  
 ttgtgattcg taaaattctt tggttggtgc aaaatagaat ttttctaaat aattaaatat 120  
 ttatattgtc aaatgaaagc accagcaatg gtacctccat gttcatgttt ataattatct 180  
 gtgattctta catatttcaa ttactatgct tatttggtta gggttaagaag tattatcatg 240  
 tgacctgcct tttgtccacc 260

<210> 27359  
 <211> 198  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-H9  
  
 <400> 27359  
  
 gtgaagatcc ccagttggac ataactcttt ttattacgtg caggcaatca ccacaaagtg 60  
 tgtgggggtt ggctgcagtg cagcgtatta ctccatggct gatggacaga gctacgtcga 120  
 gaagcatctt tttggatatc caaaaagagc tatcctttga cgaccgggtc aaatccgact 180

caacccagat gacttaat

198

<210> 27360  
<211> 210  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A1

<400> 27360

tcgcccacgc gtccgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaagagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatataaaa aaaaaaaggg gtaatgagaa 180  
aaatcaaatg aaaaataaaa aaaaagagaa 210

<210> 27361  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A10

<400> 27361

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ggtgacggtg cgcggccgta cgggtgtcac cggcgtgccg gacaacgtgt cggcggcgca 120  
cgcgggccggg gcggggctcg tcgacggggc ctctgtcggc gccacgccg gcgaggccaa 180  
gagccaccac gtcttcacct tcggcacgct ccgggactgc cggttcctgt gcctgttccg 240  
gttcaagctg tgggtgatga cgcagcggat gggcgtctcc ggccgcgacg tccctctgga 300  
gaccagttc atgctcgtcg aggtccctgc cagtacggc gacggcgacg gcgacgacgc 360  
ccccgcgtac gtggtgatgc ttccgtgtct ggaggggcag ttccggggcg cgctgcaggg 420  
gaacgaccgc gacgagctgc 440

<210> 27362  
<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A11

<400> 27362

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agaaactgga attggcacgt ccattgccat agctgggtgt gctatgtact cttacattaa 120

ggctaagatt gaagaggaga aaaggaaaaa gagcgcatga ctgctgtgaa taatattatc 180

gggaccttcc tcggacacaa catcgctgac aatcacgacc tacttctata ccttggtttg 240

ttttcatctt gagtcagtcg gtccattggt tgatcccagt ctggtgatta aaagtctgca 300

aattctgttt gtggaattgg cagcgatata aatttggctt ctttaagtaa atccggttgg 360

cggtacacag cgttattaat tcacctgtaa ctgaatggaa taccgtaatg caaaaggcac 420

aacactctgc ctgact 436

<210> 27363

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A12

<400> 27363

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gaggccacca ggaggaggc gcgcggaggc tgatcggcat cggcatcggc cccctcacc 120

tgtgctgctt ctccccggg gaggagattg atctgccttg ccctgatctc gtctggttgt 180

acgaaacata tgctgatctg agtggcccca actccccag cacacacttg atccaccacc 240

caccagctc cctgcctggt acttgcattg tccttgctgt gtgtgtgtgt gttcagcaca 300

cacttgatcc accaccacc cagctccctg cctggtactt gcatgttcct tgctgtgtgt 360

gtgtgtgttc agcacacact tgatccacca cccaccagc tccctgcctg gtacttgcat 420

gttccttggc tgttgtgtgt gt 442

<210> 27364

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A3

<400> 27364



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tgatcttgtt atctgtacca tctcagcatc gatttcttga aactcctaac ggaaaaaaaa 120  
aggaatacga atgggtgtac aggtttcaga ttttgaatta tatgattacg gtgtcagggc 180  
catggcatat tggatgcat ataaagacta catcatagag taaccagatg gtgtacatca 240  
tctgattacc gcaataagca gagcactaca tttgggagca atgtaaatca tgttacctag 300  
gattttgaaa gttgaagggt atctcaaac agactagatc gcga 344

<210> 27365  
<211> 232  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A4

<400> 27365

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ttacaagcgt cgccttattt ctacttgtaa ctcatcaata aaaatataac tcaaactctac 120  
aactcatact actttccaaa tcttactaca caactttaaa atgctaaatc tattttatct 180  
aacttaatgc catagtataa attcatctat ataatatctt cactatctac at 232

<210> 27366  
<211> 468  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-G5

<400> 27366

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cgctcgggta ctttcttctc tataacataa atataatgta taactatctc tctcatatga 120  
tttatgttaa tataaaaaata tattacatgt acaaataat taacttaatt agtttcctct 180  
aaattataat tagtagaatg aaattcaatt tcaacgaaac aaaccggggc caagagagta 240  
ttggactgta tggaaaacag gggatgatgag aaatcctcaa gatctccaat ttttctctca 300  
ctgttttttt taaaatgtat gtcaataata gtgtccatct tgggaatgca aactaaacgt 360  
tcaacaacat tctgttggtg ggctctgaag atataagctc atatgttggtc tttatgattg 420

atagtcagtg ataacagttc tggagttggc aaatgcacat ttaaattc

468

<210> 27367  
<211> 158  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F1

<400> 27367

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aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa gggccgatta ttaaaaaag 158

<210> 27368  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F10

<400> 27368

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ccatggcatg cgtcagcacc ttccagagct gccccattgc cagaagagca aagatcaaca 120

cgaggtccag gggctgcagc agtagcgtgg cgaaggggtc accaccacca gccttccagt 180

tccagtgcag ggcgtcgact ttcgcggcgg acaccagcct ccggtcgcag ctggacgaga 240

accccgaggc gatcatctcg ggggcgtggc ccgggaactg ctccctcctc agctacgacg 300

acctccgcgc ctacctcgag tcgcaggaga cggcggccca ggcagacggt cagcagcgcg 360

gcgtggcgct cctgagcgag accatgtcca caccgtgct ggtggccaca gcagaccaga 420

ccctggagga cgtcgagtgc cacttcg 447

<210> 27369  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F12

<400> 27369

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gcgacaagtt tgattaaagc tatagagaaa attatgaaga ttcatatcaa atgtaaaatc 120  
taaattaata agaatctagt gacatttagt atcataaatg ttattatttt aatgtacaac 180  
ttaggttaga cttaatatct ctttgactcc tcaagaaagt tggactgact taccatttag 240  
gatggagtat gatttattat tgtcttataa aagcctggat cggatatact tgaatatctg 300  
agtaacctaca tgatgagtat ttgtaagatg tgtgaaggtc gactgctagg tatacattgt 360  
cagtatgaaa tggctatcgt cttcagcttt ctttctcgtt cagtggacag tgaaatatct 420  
atacgatgtg ttaatgtgga ctgctct 447

<210> 27370  
<211> 470  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-036-Q1-K1-F2  
<400> 27370

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tggatagctg atggactcgc ttccctaact caagagttgc catgtgtctt caagccgccc 120  
tgattagaga acccacatgg agatccaggc caagaatgac aacgtcttta cggacatggg 180  
gctaaccctt tagagcattg agaccatatg cagagaggtc cagatcaaga acgacaacat 240  
caagacggtc atggcgccac ctttttagagc gttgacacca tagttggaga ggttttagtgc 300  
taggctagat ggggtgacat gagcatggct acagctgcgt tggggctgct ttattcttta 360  
tttctttaat cctctatagt ttctgacta aattaataat tcccattaag attggagata 420  
aataaaccta gaacattaaa atatcttttc ttcacaaaa ctcaatttaa 470

<210> 27371  
<211> 316  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-036-Q1-K1-F3  
<400> 27371

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agcaggttcc accgttccag agtagccaag cgaatcccggt gtctgggttcg cgcgatggct 120  
gatgagcatt ttaacccccca tcaccagcat gcggaggaga gttagggttat ggttgagcat 180  
cagcattcta ggagggtccc taatctgagg tacctggact tcgtccaggt ggctgttgcc 240  
caggccgcgg tgtgccttgc tgggctctac tgccttacca aggaccacgc tgggtccgctc 300  
cgtcttagcg ttgacg 316

<210> 27372  
<211> 273  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-036-Q1-K1-F4

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cagcttatga attcaattcc ccaactcctta ccggcgcccg ctggattata aatagattcc 180  
ctcgtcactg tcgctgtctc ggctggatcg gattcaactc acctacccca ccctctcgat 240  
atcttcccag ctttggctac tttctacgcc acc 273

<210> 27373  
<211> 473  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F5

<400> 27373  
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agagagcatc aaggaaatca tcaatgagga gtttgggtgat ggaatcatgt cagccataga 120  
cttctattgt tcaatttgcc aagggtgaag gggccgacgg aaaagatcgt gtggtggtca 180  
catttgatgg gaagtatcta ccttacactg aacagaaatc tgaacatatg atgtctaggc 240  
ctacccgcaa gacatcttga tgtggctggt gaggaggaga aacatgatcg tagtggtagg 300  
tatcgggctc agcaaggatc gagcatgcc ttttctttgg gtagtcata tcatcaacac 360

aataaacaga cctatatattga tgataactgt caaaaggaac attaaagtca atgttctacc 420  
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 <212> DNA  
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<223> Clone ID: LIB3067-036-Q1-K1-F6

<400> 27374

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 aaatactctc tgtttgtgtg tgtgtttgct taagtgttat ggattattca ttttttTgtaa 180  
 atttagtgat atttttatTTT gacctgctgc acacctagct aatagtTcat ttctctgttg 240  
 gcatagcaag aagtggTaca caggTtgcT ttggacaagg aaactcttat tatgcaagaa 300  
 attttcccat gccccaaaag gattcttcag caggTggagc ttCGaagtta ccaaagaat 360  
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 actctggaaa tcttgaaatt ctggatgagg aagaattTgg agaatc 466

<210> 27375  
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 <213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F7

<400> 27375

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 caagaaggca atcaacgaag ccgaccgTc caaatgtac agaattacat acatattctg 180  
 cttcaaacga tcgaagccgc tgtacagctc actcaaggga ggtcctggca ggatcaccat 240  
 ggactgacag ccggcaatag catgcctTgt ttttcatgta tgtagtgtaa tggccagtgc 300  
 atacgaatga tgaattcgat tctgaatcct gctcctgcat taaattcgag tgcTgaatg 360  
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gctggataaa gtcattgtatg tt

442

<210> 27376  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-F9

<400> 27376

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gcgtctggtg gtgggtgaagg ggagaaattc gtgagatctg ttccggatca gccgtgcgag 180  
ctcgggaatc aggggTTTTca cacatagctt cgctcgatttg aatttgatgt actaatggag 240  
tctaagggtg gcaaaaagtc tagcagtagt cgttccatga tgtatgaagc tccccttggc 300  
tacagcattg aggacgttcg acctgccgga gccgtgaaga agttccagtc tgctgcttac 360  
tccaactgcg cgaagaagcc atcctgatat cccttttggc ttcctcattc tagtagttta 420  
ggatttcttt tctgacactt tgattct 447

<210> 27377  
<211> 380  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 27377

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aacttgaaag gtccccgcga agtcccatcg gtgaaggctg acgttggtggg aaggggcatg 180  
gacatgctgn tgttgctttt atgttatgtg gcggctgcag cgtggaaccg cactaataat 240  
gtggaccgga acctctgtta ctgtggtttg tgctgtcgcg tgctaggttt atgctgaagt 300  
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tctgacttcg ttacatggat 380

<210> 27378  
 <211> 137  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-G11  
  
 <400> 27378  
  
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 <211> 380  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-G12  
  
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 accaacaaga ttgtggactt catcaagttt gatgttggca acgtcgtcat ggtgactggg 180  
 ggaaggaaca ctggccgcgt ggggtgttatc aagaacaggg agaagcataa gggcagcttt 240  
 gagaccattc acgtggagga ctcccttggc caccagttcg ccacccgtat gggcaacgtg 300  
 ttcaccatcg gcaagggtaa taagccgtgg gtgagccttg ccaaaggcaa gggaatcaag 360  
 ctgagcatca tagaagagca 380

<210> 27380  
 <211> 62  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-G2  
  
 <400> 27380  
  
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 gc 62

<210> 27381  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-G3  
  
 <400> 27381  
  
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 cttgttagga gtagtattat ttttgctctt tgctgctgta ttgtcttttt ggtgtaattc 180  
 taatctatct gaagaatttg ctagttaggg gaaagacctc atagttccag tttggtctta 240  
 gattatgaag atgaggggca aaccaagta ggcttgagac atgctggatg tagatagacg 300  
 ttatacttat cagagatgat ttctatgagc ccaaatatct accagacaga ctggaaactg 360  
 catcacatgg acagcctac 379

<210> 27382  
 <211> 118  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-036-Q1-K1-G4  
  
 <400> 27382  
  
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 aggtggctgc agctactgag gtgggtggcta ttgtggtagc agccaaagct atgatgct 118

<210> 27383  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-E9  
  
 <400> 27383  
  
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 tgagcttcgg gatgagaagc aaaagctgaa attggagaag gagagttag aacaccagat 120  
 gaagctgatg acatcgactc caacctacat gcctcatccg accttgatgc tggcgctttt 180



ccctcaggca cccctagcgt cgttccatgc ccaggggcaa gctgcagggc agaagctgat 240  
gatgcccttt gtcagctatc cggggtaccc aatgtggcag ttccatgccg ccttcagagg 300  
tcgacacctc gaagaacagt gaagcgtgcc ctgctgttgc ataattgctt cgactagcgg 360  
ctggctcctgc tcacaccatg cgaattagtc gcaactgaag cccccctagc tgttgatcca 420  
ttgattggct ataactgatg ttgttatatt t 451

<210> 27384  
<211> 188  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C8

<400> 27384

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gtgaatatga tgcttgtgct tcgaactggg ctgcactctg aggaccacac tcttgtttgc 120  
attgtcattg agtatacctg caaggagtta ctggacatct gcatagtgtg cgtctgttac 180  
aagatgag 188

<210> 27385  
<211> 438  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-036-Q1-K1-C9

<400> 27385

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acggcatgaa gattgctcag gaggagatat ttgggcctgt gcagtcgac ctaagttca 180  
aagacctcaa tgaggttatc aagagggcaa acgcgagcca gtatggattg gccgccggcg 240  
tgttcaccaa cagcctggac acggccaaca cctgacgcg cgcgctcaag gccgggaccg 300  
tctgggtgac ctgcttcgac gtcttcgatg ctgcgattcc gtttggcggg tacaagatga 360  
gcggcatggg gagggagaaa ggcgttgaca gcctgaagaa ctacctgcan gtgaaagcgg 420  
tcgtcacccc aatcaaga 438

<210> 27386  
 <211> 228  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-D1  
  
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 gcgccatacg ggggcgctcc cccaccggcg atgtctaaga ctgccgagtt cgtgggtcttt 180  
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<210> 27387  
 <211> 452  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-036-Q1-K1-D10  
  
 <400> 27387  
  
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 ggccttccgt gccacaaaaa tcccgcgcgc tcttctctca aagtgcggtg agcctgccgc 180  
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 gccgccgccg tgggtgcgtgt accttatagc ctcatcccg atccgccgca cgtacgtcgg 300  
 cgtcaccacc gatttccctc gccggctgcg gcaacataat ggtgagttaa aagggtggtgc 360  
 aaaagcttcc tctgccggca ggccttggaa tctcgcatgc cttgttgaaa gatttgccaa 420  
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<210> 27388  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<400> 27388

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tttgacaagc ctaaccccaa acaaggcatt ggtatgctgt catggagcag cgacagccac 180

tatttcttca ccaggaatga caacatgcca actgttctct ggatatggga tatatgccgc 240

cttgagcttg ccgctgtgct cgtgcagaaa gatccaatcc gtgctgcagc atgggaccct 300

acctgcacac gccttggttt atgcacagag agccctcact tgtacatgtg gacgccatcc 360

ggtgcctgct gtgtcaacat ccnctttctg aacttccgaa tcgttgattt gaagtggagc 420

tcgaatggga gct 433

<210> 27389

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-D2

<400> 27389

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agatgaggcc atccaaatta taaacagaaa caagtatggc aatgggtgctt ccatatttac 120

aacatttggc gtctctgtca ggaaatttca aacagacatt gaatcttgct aggtgggcat 180

taacttgcct atttttagtcc ccctgccggt cttttccttc acgggcagca aagc 234

<210> 27390

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-D3

<400> 27390

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ggagatctga agttgttggt catagaaagg atcaacaggg aattcttaga ccaacatgag 120

gaggaagaaa tgcctcatgt tattagtgtt acaccagaca tacaggaggc cattggacgg 180

gaatgagggg ctatctgcaa actatcttct tgagcaagct ggtgaggaag attaagccag 240

agtagttttc gtatgggtac aaacatagct ttgcgtcaat cgatgccagg caaatgcaga 300  
atgcttggtg gccggtcagc gctatgtgta gaacacatac tccggagatg aacatggatc 360  
acgagaactg gaataattgc tgtcagccat ggacccatga catcggctgt ttcgcgca 418

<210> 27391  
<211> 416  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-036-Q1-K1-D5

<400> 27391

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cctgtcggac ggtgagaagg acgccgtgcg caaccttggtg gtcgtcatct tcaagcgcct 180  
gcgtctgcan gtgttcatcg agcccgacca caagcacctc taccgcagcgt acgaggcgtg 240  
gggtctgccg tacatcaggg acggcacgct cgctgcgtc gaggacttcg tcctggggct 300  
cgagagcgtc cccaaggcgc tgataggact cttgcacggt cgcaacgtct gaaagcagct 360  
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<210> 27392  
<211> 453  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-D6

<400> 27392

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cgggtgtccc cagcggcggc ggtcgggct gtgccttcgc tgccttctgtt cgcggttcta 180  
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ggcgcgtttc gggcactcgg gtatggattc ggctgtcca gcgtcagcgc tgccctcatc 360  
aatggcggcc ttggtagcaa gtgcatacct taaaacgcaa cgtcatcgaa tttggacatt 420

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453

<210> 27393

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-D7

<400> 27393

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cacgtaacta gctagctagc tagcagtcgt agaatgacga tgaggggtct ctctgttgcg 120

gtcgctctgg tcgtggtggt ggccgcggcc tgtcttgccg cgccgcgata cgcggaac 177

<210> 27394

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-036-Q1-K1-D8

<400> 27394

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tcgtgaaaga taacttctac tataagcgct gcatgatcaa tatgaacctc gaccttaaga 180

aaggcgggaa ctgtcgctac cttatgacgg cgggctacgg gcactttaag agggatgacc 240

tttacttgac ctgtgaggtg gtgaatcccc taaaggtaga aaatccgtgt tctagatgag 300

gtgctttcta tgttttgga gaagctnttg gtatggtctg tctgcgctct atcatgcttc 360

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<210> 27395

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-D9

<400> 27395

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cacatataaa aaaaacacta ccaattcaaa cacacaaacc ttcatacttt aaa 113

<210> 27396  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-E1

<400> 27396

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ttggcggtggc gtccatgggt gtcatgcgcc cagagctctg taagaagtcc atcgtgcccc 180  
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<210> 27397  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-E10

<400> 27397

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acctggaagg tcagtcagaa attccgaagg acagtcaggg ttcagctgac aggagtggac 120  
cgccaccagt tttacgagca cagcccaaatt ctaaaccgga actcccagaa aacgctggta 180  
catcaggaga aggaacttct gattccattc gtactaaagg gcccaacgcc catccaaccg 240  
aagtttctga aaaggatttg gctaaatcaa agcagcgtgc cagagccaga aggagattgg 300  
attttctgtc aacccagtg gagctcaaatt tgtgactgc tgcggcaagt tgtcaaaggc 360  
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gtcaagacat ttcacagaat

440

<210> 27398

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-036-Q1-K1-E11

<400> 27398

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gcgatcccac catcaaccca ggctcgggt cgccccgggtg cccgcgatgc ctctccctcc 180  
tcaaccccac cgcgggaaag agggactggg ccatcacctc cgtcctgcac gacgccactg 240  
ccgtggctgg ttccgggtgcc ggcgctttgc tcagtgtgtg gcacgggttt aacacaggga 300  
tcccttttgt ccagaagcat gtcaaggggc cgaagtggct gcagttgctc gttgggggtgc 360  
caccactgct gatattctca ggtgccagtg ctgtatttgg tgcatatgca cttncagggt 420  
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<210> 27399

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C6

<400> 27399

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gcaagctgag tgagctatca tgtcaaaaaa aaaagttatc ctgatttgac aaggtgaggc 180  
attcaatcga atcgctaccc ttgtaaatgt attaatacta ctgtctcatt gaatgcaactg 240  
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ggtgttctta cttactatgc a 321

<210> 27400

<211> 453

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-036-Q1-K1-E12  
 <400> 27400

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cagagaatta ctaaagttca tgtggaagga catgttgtaa aagatccttc aggggctgaa  180
actttggact tatgggcctc aagtcatggt aatgaaaaga accttgaaca gataagtgaa  240
cataatgata tattcgatga ctggcaggat ttccaaaact ccaatccaca gcaaacaacc  300
ttacaagttt cttcagatgc ttcattatct gatataacct tggcatcaag gcctgatgct  360
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taaaaggagg gttctaata atcaaaagca ttt                                     453

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-036-Q1-K1-E2  
 <400> 27401

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ttttaatgag ttgggttgta ctcttttttc ctgtctaaaa aaaaaaaaaa aaaaaaaaaa  120
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<210> 27402  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-036-Q1-K1-A7  
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gacttttggg gcacgagtgc gcatgagatg gagaacagcg ggatccaatc gcagaggagc  180

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atgtcttcga tcagcacgtt ggctcagtcc agcgatcagc atgcgtcagg aagttgcagc 240  
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<211> 314

<212> DNA

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<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-A6

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cactggcaga gggatgggtg acggtgttgg ccgaattgcc tgtctggaca gccagttatg 420

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 ggtggctctt gagctgtcac aagccaagtt tcgctgctt gggctctcac tcgatgcaga 180  
 gtaagctgct ccgattcagt agagccttta ccttgagcgc tgagagggtc ccaggcttac 240  
 aacatttaga gctttgcgtt ttaacatggt gcgtgatgtg ccagactgat gcattgtggt 300  
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 <223> Clone ID: LIB3067-036-Q1-K1-A4  
  
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gatcggcgga aaggttgccg tggctcgcgg atacggtgat gtctgcaagg gttgggctgc 120  
t 121

<210> 27432  
<211> 122  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-036-Q1-K1-A5  
<400> 27432

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cg 122

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<213> Zea mays  
<223> Clone ID: LIB3067-035-Q1-K1-G7  
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tgggtgaagtc gatttctgct tccctgttgg aacatatagc ttgtacttca ggttccatct 180  
tgggaagttc tacagacgat ttggccgccc ccagtcgacc tcagagcatg ttcattggttg 240  
ggacaagaag cctgttcgct tccagctatc gacctctgac gggcagcagg cattgtctca 300  
gtgctacctg gaggagcccg ggagctgggt cctgtaccat gctggcgatt ttgtggcctc 360  
aaagcctgac cagctgatga agctgaagtt ctccatggca cagatcgact gcacgcacac 420  
aaaaggcgga ctgtgcatcg acttcgttct ta 452

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F1

<400> 27434

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cgatgctgtc caacctcatg taccggttcg actggcagct gccggcggcg atgaaggcgg 180  
aggacgtgga catgaccgag gtgtttggga tcacggcttc gaggaaggag aagctgctcc 240  
tagtcccaca ggctgcgtga tgatgatgat aatctagtgc aatgcaatac acggttttaa 300  
attactaaca ccaaaggctg tgttactgga ccttacataa taaataataa atgtgctact 360  
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<210> 27435

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F10

<400> 27435

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atgaagatga tgatgacgac gacactgaag ctctaattggc agagcttgag aggattaaga 180  
aagaaagagc cgaggagaag cttagaaagg agcggcaaca agcagaagag gaggccaaga 240  
tgaaggaggc tgaactgatg cggggaaacc cgttgattaa tatcaacaat gctggctcct 300  
tcagtgttaa gagaaggtag gacgacgacg tggatttcaa gaatcaagca cgaggagaga 360  
ccaagacacc gaaacggttc atcaacgaca ccatcaggag tgatttccac cgtaaatttc 420  
ttcagagggtt catgaagtga 440

<210> 27436

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F11

<400> 27436

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tctggataga ggtaaaatTT tacgcacgct cgcacgcac gatatatctc ttatatgtg 120  
tcccacatat aaaatactgt ggacggattt tcaaacgat gactctgaa 169

<210> 27437  
<211> 123  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F2

<400> 27437

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ccc 123

<210> 27438  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F3

<400> 27438

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tccataccat ggctaccctt atagatcata cggggcaccg tatttcccc catatggtta 180  
tgaggaggct cctagattcc gccggcctat gcgctacaga ccttacttct gaagtacggg 240  
gtagggtaat gaagttcaat gcaaaaccag cccatgggtca ctgggtcagtc ccgggaataa 300  
tcaactgtat cgtttgcact ggtgcggctc aatgctcctg ta 342

<210> 27439  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F4

<400> 27439



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 gttggagggc atgttctactg atttgaagac ctctcaggat actacacaag gggttttatgc 180  
 atctacttcc tcggagctgc cggcagatgc cccacaaatg tctgtccaga tactcacaac 240  
 tgggtcatgg gcaacgcaaa cctgcattac ctgcaatctc ccctgaaat tgttttctgtc 300  
 tcagagaagt ttctggcctt ataaccttgg cccacataat gggcaggagg ctaacatggg 360  
 aaaaaaacat tggggaccgg ttgcattaaa gttacatttg g 401

<210> 27440

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F5

<400> 27440

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 gggcgcccca agaaggacta acaggtttcg gatgaagcga tgtggcacca ctccattgtg 120  
 acgcatacca tcaataccat gtaccagcat gactggcacc ttatttccac caatatggct 180  
 atggaagggc tcatgaatga cgaggttcta agcactacct acctgaatgc cgaagtacta 240  
 cttaggccac aagatgtcaa tggatgacga t 271

<210> 27441

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F7

<400> 27441

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 tggctcattc gatgagtga atgactacag tgggcaatac gagaaaggct atcactccaa 180  
 atgcagctag aagtagcaag ctggaaacat aaagcaataa ctacagactg aagggaacctt 240  
 cagcattgga tagccactct actaggtcaa acagaatgga cttgcaagtg tctggctagc 300

agaaatcgag ttctgtgaac cttcctacaa ggaaaatttt cagttctact gctggagatc 360  
ca 362

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<211> 224  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-035-Q1-K1-F8  
  
<400> 27442

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cctgaattag ttatcccaaa aaaaaaaaaa aaaaaaaaaa ctaccaaact actacaacat 120  
aattaaaaaa aattcaccaa ttaaaaaaaaa tcttatagat aatacaaaaa gagcttattc 180  
attctactac ctttttaaaa aaaatatgat gccccacaa agta 224

<210> 27443  
<211> 105  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-035-Q1-K1-F9  
  
<400> 27443

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aaaaaaaaaa agctaaaagc cggcactaat aatgatatta acttg 105

<210> 27444  
<211> 288  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-035-Q1-K1-G1  
  
<400> 27444

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cagaggatca ttcgattagt gaaatgtcta cagtgggcaa tacgagaaag gctttcactc 180  
caaatgcagc ctagaagtag caagctggaa acattaagca ccttactcat actgaagggg 240

ccttcatcat tgaatatcca gcttactaag tcaatcataa ttgacttg

288

<210> 27445

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G11

<400> 27445

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gaatccagcg gttccagctc cgcccaccca tgcagcgcgc ctggtccttg cctcgtcctc 180  
gccctggccc caggtcgcgg ccaagtcogg cgagcctggc atcccgacgc gggtgcacac 240  
gagccccgacg tcccggcgag ccgtcctccc tgtccctacg tatggctagg ctcccctgca 300  
gcgcggacag gaggccatgg cgcgcggtg agtgcccctg cgagcggcg tcacgaccag 360  
cccccttctt ctctgccata taccctctt gctgcaagtt gaagaaccgg tcatggagga 420  
gaaaatagcc tgag 434

<210> 27446

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G12

<400> 27446

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cgggcgctgc ggctgactgc ggcaaggaga ggtgtcacgg ggtgctgtac gacgacgagg 180  
cgtggcgggc gtgcctccgg gacatccacc cggcgtggct gtcgcctac aggtcatct 240  
ccttcttcgt cctctcagc ctgctcgtcg tcattgtcat ctgcgatggc tgcagcatct 300  
tctactacta cactcagtgg accttcattc tggtgactat ttacttcggg ctccggcacgg 360  
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cggcagaca 429

<210> 27447  
<211> 347  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G2

<400> 27447

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gcggcacagt ggtgcggtgtg caggcaggac gcgtctcagg ccgcgctgca gaagacgata 180  
gactacgcgt gcgggtcggg ggcggactgc aactccatcc acgagacggg ggcgtgctac 240  
aaccccaaca ccgtcgcggc gcactgctcc tgggcggcca acagctacta ccaggacctc 300  
gagcgcggcg agctgcgccg tggcgcggct gagtttgcgg acggcga 347

<210> 27448  
<211> 153  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G3

<400> 27448

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tatccaaggt acagtatagc gtatcctaac ttc 153

<210> 27449  
<211> 298  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G4

<400> 27449

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tgatgcatag aacatttgtg gtataagatt tttctgttga tgtttgcagg ttatttttcc 180

agcacttgac attcgagtga aaaatgtcgc aaggacatat tctcttgaac ataaaggaga 240  
 aaatgatctc ttgcacatc agacaaggct tctactcttt cagaggaaag tcattttt 298

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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 27450

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 acctgccgga ggcgtgaaga agttccagtc tgctgcttac tccaactgcg cgaagaagcc 180  
 atcctgatat cccttttggc ttctcattc tagtagttta ggatttcttt tctgacactt 240  
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 gtccttgca ctctccctc ctccatctcc agcattgtgt tctgattcac ctgctccaat 360  
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 gaagcgcctt gagatcacat 440

<210> 27451  
 <211> 374  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G5

<400> 27451

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 gtgtaaaaac ggct 374

<210> 27452  
 <211> 459  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-G6

<400> 27452

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tgtatcactt ctgaccttta ctctccgtgt acatcctgat cggcttgatt atgttgacca  180
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aacaaagcaa attgttgcac ttcttagtgc tcccctggaa aaatatagca atattgttac  300
ttcattagaa ctttcaaact atcctcgggt tatggattat cttgataatg ctacaaccaa  360
agtgatggct gtggttaataa ttcaaagcat aatgaaaaac acaacctgca tatctacttc  420
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<210> 27453  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D10

<400> 27453

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aaggagtcag atcagtggag aaaatttgag cttttctgta gcgtgaatgt tgataataac  180
aggtcagtat gtgaggaagg tttatttgggt tggaacgggt cattcgtgtc gtgttaatcc  240
agcaaaccct gtgtaggtta agtaacaagg cttctgtgct gttaaaaata ttttactatg  300
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 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D11

<400> 27454

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gtccccggcg cccgcgcccc tggagacgca tgcccaccac caggaggaag cgcacaggcc 180  
gcacgtcgtc ccgaccccg ccccgccgccc ttcaccgcac gtccaccagc acgaccacgg 240  
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gaaaggcctg ctggacaaga tcaaggagaa gctccccggt ggccacaaca agaagcctga 360  
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<210> 27455

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D12

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ggcgacggct gcatgatggt gcaacgtctg acctacctca agctgcacag ctattccact 120  
tagtccaacc aatcacattt tcgacaagaa ccctgttggc cagctcgaat acc 173

<210> 27456

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D2

<400> 27456

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gcaaggaggg aaggccaagc cgctgaaggc gcccaaggcc gacaagaagg agtacgacga 180  
gacggatctt gcatatctgc agaagaagaa agatgaggaa aaagcactga aggagcttaa 240

ggccaaggca cagaaggcg cgattggggg ctcggtctg aagaaaagt gaaagaaatg 300  
agactgggtca cccgtctcca atacctagag gatgataagg caactgtcta tctgtgttgc 360  
gcttcactaa gtgtgattgt aacagtggta ccttctgtgg tctgtgttcc gcgaagttgc 420  
aattgggtgc tcgatcgaaa gatggt 446

<210> 27457

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D3

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aaaaaaaaaa aaataaaaac aaaataaaaa aaaaaaaaaa actaaaataa aaaaaacgac 180  
gtgtaaatta ctattatata taaatacaaa atcgcataga taagaaga 228

<210> 27458

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D5

<400> 27458

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atggctcggg tgtaacaata atgaccgcta catttcagag ctatagtact atgacgtgaa 180  
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<210> 27459

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D6

<400> 27459



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tgaacgagac taaggcaaca gtcaagttcc agtcaagaa ggtcctttgc atgggtgtcg 180  
ccgtcggcaa cttggcgatg gaggagaagc agatccagca gaacatccag atgagcgtca 240  
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gcaccatggg gaagccatac aggggtgttct aagtctgtc ttttgtgaag tctgctaggt 360  
tctggcaccg aggttttatt gaattaaact cttgttaaga gtatgttttt ggacgatcct 420  
atatttcgtc ctggcgctac tatgtttcaa aatggt 456

<210> 27460  
<211> 451  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-035-Q1-K1-D7  
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ccatcttcga ctacgacttc gtcaccgagg agaactgcc aagagcaag atcttcttca 180  
tcgcctggtc tctgacacg gcgcgcgtga ggagcaagat gatctacgcc agtccaagg 240  
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aggttggcct tgacgtcatc cagggccgtg caagctgagg atgccagcg atgaactgcc 360  
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taaaaactgc atccaccgca gtgatgaaat c 451

<210> 27461  
<211> 343  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-035-Q1-K1-D8  
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 ggctgcctt gccgcgccgc ggggcgcgga cggctcggtc gaggcgggtg cgacgccgac 180  
 ggactctgtg gctctgatgc tggcgccgtg cgcgtcgggtg gcgtacgacc cctgctccgc 240  
 gccgttcgtg tcttgcttca acgcggtgca cgccattgtg aagcacagcc tcatgtgcct 300  
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<210> 27462

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-D9

<400> 27462

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 cattcagatc ccaactgcct tcgatccctt cgctgaggcc aatgctgggg actctggtgc 180  
 agcagcaggg tcaaaggact acgttcacgt gcgcatccag cagcgtaatg gtcgcaagag 240  
 cctgaccacc gtccagggat tgaagaagga gttcagctac agcaagatcc tcaaagatct 300  
 caagaaagag ttctgctgca atggtacagt ggtccaggac ccagaacttg gacaggtcat 360  
 tcagctccag ggtgatcaga ggaagaacgt ctgcaatttc ctgctccagg cccgcattgt 420  
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<210> 27463

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E10

<400> 27463

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 tgggctgagc aataagatta ccacgggcac ttcgttgggt agcgggaagg tgaaggagat 180  
 ggaccagaag ttccaggctc ctgacaagac aaagtcagcg ttcgagggtg ccgagcagaa 240

ggtgagcagt gccgggtccg ccatcatgaa gaacagggtac gtcttcaccg gcgcgtcgtg 300  
 ggtcacccga gcgttcaaca aggtcgccaa ggctgccacg gacgtcggga cgatgaccaa 360  
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 ctcgtaacg 430

<210> 27464  
 <211> 223  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E3

<400> 27464

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 ctatgctata caaactcctc aacctagttc actggcactt gcttgacata attattccac 180  
 gagacatgat caccaccatt acctgatata tcaactgtcat atc 223

<210> 27465  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E4

<400> 27465

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 ccaggacgtc gcttctcgga tctacgtcct agactgatgc tatttgccgc gtcagtcgctc 180  
 ctagacggat gctatttgct gcgtcagtcg tacttgagca tcattagagt gtggtgcctg 240  
 cattaaagcc tgtactaagg ccctgtttgt ttaaggttta aggttttagga atttgtgttc 300  
 actcctactc actttgggat tgccggggga attggttgcc tggggtatat tgaaggtaaa 360  
 ttaaacgttc atgagttcat ttctctttat ttatatgtca gattaaggtt 410

<210> 27466  
 <211> 325

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-035-Q1-K1-E5  
  
 <400> 27466  
  
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 cctaacgacc agagttatcc gcaagcttta caagtcgctt tatcaaattc ccacttgact 180  
 gcagggacca ttgattgatg ctctgaatga caataatcgt ctatgctggg gcaacataaa 240  
 tttgggctta agcatcgaga tgatggctac tggctctact gatgcattct agcattcgcc 300  
 tacatactac tcaatacata ttgga 325

<210> 27467  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-035-Q1-K1-E6  
  
 <400> 27467  
  
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 ttttgctagc tgagacacaa ccagcgaaga tctgttctca ggttggtctg tgcacttttg 180  
 atggcactca tgggtgtcagc gctggaattc ggagcgtagt ggatgatgaa gctgggaaat 240  
 caaatggtgg tctcaagagt gatccaatgt gcaatgcctg tgagatggct gtggtatgga 300  
 tgcagaacca acttgcccag aacaagacac aggagctcat tctgaactac attaataag 360  
 ctttgcgagc gtcttccgag tocaatggga gaatcagccg tggactgtgg cagtcttgcg 420  
 tccatgcctg aca 433

<210> 27468  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-035-Q1-K1-D1  
  
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 tccacgcgca gagcatcctc gccatctggg cctgccaggt cgtgctcatg ggtgccgtcg 180  
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 gcagcttcga cccctcggc ctggccgacg accccgaggc cttcgtcgag ctcaaggtga 300  
 aggagctcaa gaacggccgc ctgccatgt tttccatgtt cggcttcttc gtccaggcca 360  
 tcgtcaccgg ccagggcccg ctcgagaacc tcgctgacca catcgctgac ccagtcaaca 420  
 acaactcatg ggcctacg 438

<210> 27469  
 <211> 300  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-035-Q1-K1-E8  
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 cattcaagta gcatttgact atctgagtgt tatgctttac caggcttttg ctttttagtat 180  
 tgcctttata ttgagtacta ctacaatact tcatgtcgct ttgttttcaa aaatacttta 240  
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<210> 27470  
 <211> 229  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-035-Q1-K1-B12  
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 cgtggcggtg tccgtcctgg tgggtgggcgc ggcggcggtg tgcgacatga gcaacgagca 180  
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<210> 27471  
<211> 320  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B3

<400> 27471

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cccgaatgag catggtcgat ctggatggat atgaaatgct ctgatgaccc caaataaagt 180  
tgatgcacag cagggattca ccctgcatga cgcgagacta tgtattgagg ctaagacctt 240  
gcgtgtgtag tgttgagtgc gaagctttgt tactttataa atcgttgtca tgcccaaaaa 300  
tatatattat gttttaatta 320

<210> 27472  
<211> 209  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B5

<400> 27472

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tcacggcgaa tgaagaaaca atctctccta gaataactac atggcagcac tcatcagtc 180  
atccttcctt tcagcactct ctcttgac 209

<210> 27473  
<211> 456  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B8

<400> 27473

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gtcgcactgat atccgctcagc ctaggcacag ctccaactgt acaattaata ttcaactctc 180  
gagtaaataa atctaaagct gagaagtata ggggccaaat tctgcaggca tttgaatctg 240  
ttctttcttc taccataata cttgaaattc gatatgaatc taaggatgat ctggcagcag 300  
gccatgctcc agttatcttct gcctaccctg aggatggctc ctcaaactctg gtattaagga 360  
ggctcttttac taaacatagt tcagtttctt cggggggcga gaacttaatt aggaggcttc 420  
agaaagatag tgtggtccaa cttggtagct caaatc 456

<210> 27474  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B9

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gaagaaggcc aaagcagcag catttcaagc tgaaaagaaa ggctacacag aaactttaaa 180  
caaattatctt gaaaagaaga aagaaacaga tgaatttaaa gaaatgaaaa aagacgagag 240  
gttttagatta gcattagcag ttgaacaaga gagggctgcg aatgagaaat taaatatgca 300  
gttaaggagt aaagagctag aattgaggca gcaagaagtt gaacaacata agaagaagga 360  
agaagagaag attatgacac tagaccttag tgtcatgcct gctgatcaga agcaatatta 420  
catgagacta cgatctaaga tatt 444

<210> 27475  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C11

<400> 27475  
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ttcttcctga ggcgaagtta tttccgcaga aagatatagg agatttggca tttagagatc 180

caaggaaaag gaaagtagct gagtacaatg ccatctcata ttctgaccaa atgagattaa 240  
gaacagcagt tgaactttta aaagccacga aggacattga atcacagttg gaaaagatct 300  
cctctccatt gctgattctt cacggagccg cagacatggg aaccgatcct catgtcagca 360  
aattccttta tgagaaagcc agcacgaagg acaagaccct caagctctat gaaggcagct 420  
accattcaat c 431

<210> 27476  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C12

<400> 27476

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ggcagttcca acaaattggg acttaccata tactcagcca ggtcacttct accctgcttc 240  
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cagaaataac attcatcctt actcgggtcc tgaatttggg tttctgcctt cacagccagt 360  
tcacaagacc tcagtgaact tccatgcggg accagtgaca ccaactgaccc cgttgtgtag 420  
ccgcggaatg ccagtggc 438

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<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C2

<400> 27477

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gcgtcaccat catgcccag gacattcagc tcgcgcgcgcg tattaggggc cagagggcct 300  
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<210> 27478  
<211> 211  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C4

<400> 27478

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tgtcgaaata aatactgtgt ccactcgttc gtgaaatgaa aaaaaaaaaa ataataaaa 180  
aaaaattaaa aaatataaaa aaatttataa a 211

<210> 27479  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C5

<400> 27479

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ttattagatt ttaatttgta tttatgtttt tttattatct attttatttt ttattttatt 180  
tttatatctt tttttattat tatttttagt atcatttttt ttttaattat attttttatt 240  
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<212> DNA  
 <213> Zea mays  
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gcagccgtcc atcaaccaat caaaggcttc accagtcaac tggacttgag ggcaggacct  180
cgtcattccc aaaacctgga agaatcggcc aggatgaccc cactatgagg agttttgaac  240
gccttactat cagcgcagag aggaggagat gaatctttgg aggtgcaaaa ggtctgacca  300
ttgacgagta tactgatttc attgaatatt cattcggttc cagatgatgc ttactgatga  360
gcaagtcaaa agattatgta ctgtgcatga tgctgagctc ttcacattgc gatgctcgtc  420
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 <213> Zea mays  
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<400> 27481

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tgagctatgt ggtgtgcagt tctccgcaag cagaagtggg ataattcaag gatagaaggg  180
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atagacaaa                                     429
  
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<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C8

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acattgttgg gaggaggat ggctcagcga agctgccatt caatcggaag aagagctggg 360  
ccgggagcat ctcatgttc atttctgggt tctgctgtc cgcgatgatg atgctctact 420  
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<210> 27483

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C9

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ccgaaccgga accttgggtg ggaattggaa atcatgaaag gggaaggagt tgaccggacc 300  
cttgcttgca cgtctccccg agtgtgtagg tagatggaca gttgggggtc caaagcacta 360  
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<210> 27484

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B11

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cagaactggt taatatgcta gaagctgatt gacagaacac ttgcaaagcg atgcatactg 180

actgacacta ctccgatact aagatacctg cttgatcaag gagactctat atacaaggca 240

cataccaacc tacaaaacga atctcattat gtaagccgtc gtctttgagc atgtcatcta 300

acattcactc tatcggcgcg tgtcctgctg gccttaatct atcaaactcc tgtatctgat 360

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<210> 27485

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H3

<400> 27485

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gagactatc 129

<210> 27486

<211> 414

<212> DNA

<213> Zea mays

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ccagtcgcct cgcgcctctg cctccggctc tccgcacacc ggccggtgac cctgcatcca 180

ccatgactgg tgtcagcact ggattgttga cgggcttgag gagggtcatg gaacagcaaa 240

ggatttcaac cgctttctgc agacaatcac gagtttcgag ctctactgtt tctttctctg 300

acctcgatga gaaggggtgac atggaatatg atgataactc tccaaattca aagaggaggt 360  
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<210> 27487  
<211> 295  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H5

<400> 27487

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cgatcgaccg agagctagca cgcgatggcg aggtcttcca agatgatggg ggcggcagct 180  
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<210> 27488  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H8

<400> 27488

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cgatggcggg atatctcaaa ttattgtctt atttagttag gtctgatttg cgtctatgag 180  
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<212> DNA  
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<223> Clone ID: LIB3067-034-Q1-K1-H9

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 ccagaaggag agcaccctcc acttggtgct ccgcctcagg ggtggcatgc agatctttgt 240  
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<210> 27490  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A1

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 ctctaaggaa ctgctggagc aacgtgctgc tggtcctgcg atgatgcac catctgaagc 360  
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<223> Clone ID: LIB3067-035-Q1-K1-A10

<400> 27491

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 tgaatagata aataatactc actccatttt ttatatatttg tgtgttttag ttcaaaaatg 240  
 gactggtcgg acgattaata ttccagaaca gagatgatat atctgacca tacatacttt 300

gatgtaacaa cttggtttta tgcttcttgc gctgatatgg cagcttgact tcacaccatt 360  
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 tccccacgga ttatatcccc accgtatttg acaacttcag cgccaatgtc tccgtgggtg 180  
 ggagcatcgt taacttgggc ctctgggaca cggcaggcca ggaggattac agcaggttga 240  
 ggcctctcag ctacaggggt gccgatgtgt tcctcctctc cttctccctg gtcagcaagg 300  
 cgagctatga gaacgtctc aagaagtgga tgccagagct tcgccgattt tcacctactg 360  
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 accattct 428

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 <223> Clone ID: LIB3067-035-Q1-K1-A2  
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 <223> Clone ID: LIB3067-035-Q1-K1-A3

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tcccagtagc tagcagcggg acatcgctcg gggtcgtccg ccgttgccat cgtgtgacgg 180

cgtgaaggga tcggatcgaa ggaggccgca agccaagcaa ggatcaagaa atggcgctcg 240

gcggccacct gctgtacta gcgctgctcg tgctggccgc ggccggcagcg gcagcgctcg 300

gcggcggggc acagcaccag cagcggcagc gcggcgggag gaagccgaag ccggc 355

<210> 27495

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A4

<400> 27495

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gggctgcaac agagtacttt aaaagggatc ctcaatcatg actttccctg tgtattgctg 120

atatattggc actagatatt ttaggaaact ctatttacag cacagtgatt tgcacc 176

<210> 27496

<211> 246

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<400> 27496

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gtacgagtta atactataat aaggaagatc ttataaagat acttaaata gagttgactg 120

tccttgaggt tccaacatta cgactgcaaa tacctgaacg ataccgatct taacaggtat 180

gctaaattta ataatgtggc cagcttatta aaacgtgaag aagggaaaac ctttgggttt 240

tccaaa 246

<210> 27497

<211> 453

<212> DNA



<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A8

<400> 27497

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tgccctcaag ggagctttgg atgggtggcct ggatattcct cacagcgaga agaggtttgc 180  
tggtttcaag aaggatgaca agcagctgga tgctgatatc catcgcaagt acatctatgg 240  
tgggcatgtt gctgactaca tgaggaaacct cgctgaagag gagccagaga agtaccagtc 300  
tcacttcagt gagtacatta agaagggaat tgaggctgac gacatggaag ctctgtacaa 360  
gaaggccat gctgccatcc gtgctgatcc ttctgtggtc aagtcaacca agcagccacc 420  
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<210> 27498

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A9

<400> 27498

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gttcccgggc gtgaacacgc tgggcgtctc catggcgcgc atcgactacg cgccggggcg 180  
ccagaacceg ccgcacacgc acccgcgcgc caccgagatc atcttcgtcc tcgacggcac 240  
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cgacgtcttc gtcttccgcg ggggcctcgt ccacttccag cagaacaggg ggcacggccc 360  
cgccgtcgtc gtcgcgcct tcaacagcca gtcacgggc acgcatgcca tcgccatgac 420  
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<210> 27499

<211> 434

<212> DNA

<213> Zea mays

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gcaagtgcac aggaattaca ttatcggagg agcaactgaa atatgggaag agaaagggtga 180  
aagaatttgg attagaggac cgcataactc tcctgctttg tgattaccgt caaataccga 240  
acggccagaa gtttgatagg attataagtt gtgggatgct tgaacacggt ggccatgagt 300  
tctacgaaga tttctttgcc tcctgcgagt atcatttggc cgaacacggt ctacttgtcc 360  
tncagtccat cgcggtccca aaggaaactgt acgacaaaat gaggacgaaa cctgactttc 420  
tgaaggaata tatc 434

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<223> Clone ID: LIB3067-034-Q1-K1-H2

<400> 27500

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aggactccaa ggccgtcgtc gtcctcgtcg ccgacgtctt cggattcgaa gcgccgatta 180  
tgaggaagat agccgacaag gttgcttcgt cagggtactt tgttgtggta ccagatttgt 240  
ttcatgggga tccttatgca cctgagaatg ttgagaagcc ctttcctgtg tggataaagt 300  
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tagaagcaga tagacagaac aatgggaaag catgcatact gactgacact actcggatac 180

taagagacct gcttgttcaa gtagactctc ttcgaaagga acatagcgac ctacaaaacg 240

aatctcatta tgtaagcctt tttcttttag tatgtcaact aagatttggg ctattggcag 300

ttgtgctgtt gccctttatc tagcaaactt tgttatctga ttttatccat tggaaatgct 360

ttatacaaat gcctaaacca actcatcact ttgntgaata tttggcttgt cacgctacct 420

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<210> 27502

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F3

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agactgagga gcaggtgacg gctctaggaa ttccctatcg tgtgggcaag tttccacttt 180

tggtctaacag tcgtgcgaag gccattgatg atgctgaagg ggtagttaag gtgatcgcg 240

agaaggaaac cgataagatt ctaggtgtgc acataatggc acccaatgct ggtgaaatca 300

tccatgaagc tgatcatgcc ttgcagtatg gagcattcag tgaggatgtt gctcgaacat 360

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<223> Clone ID: LIB3067-034-Q1-K1-F5

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 ttggtggggt ctccttgetg acagcactct ttgcctacaa tttcatagtt gaaacaaaag 180  
 gacgttcgct tgaggaaatt gagatgtcct tgagcagtc taccctggc aagcaagagt 240  
 agaacatctc aattgtatgg acaaactgaa caactgacgg gaggaattta ataagagcag 300  
 agggggccta atcccatgaa tcttcagcag cagcagtttg ttgcaaacia catcaactcc 360  
 tatagataat gagcacaatc aaattcagct tttctttggt agcatgagaa ttgtttgtaca 420  
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 <212> DNA  
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<223> Clone ID: LIB3067-034-Q1-K1-F7

<400> 27504

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 gttcttgttg ttttgttttg gtggtcgagc atcgcatgtt ctgcttctgg atccagatct 300  
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<210> 27505  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F8

<400> 27505

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<210> 27506  
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tgttcgtcaa caagcagggc cagacgcggc tggcgcagta ctacgagcac ctctccctcg    180
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agtgttcgtt tgtggagcac cggaactaca aggtcgttta caggcgctac gcctnccttt    300
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ttgtgcagtc gccactgttg ctgtgttctt gcgatactct tgtaacttga gaggtggtgt    180
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ttactacttg cgatactgtt gttacttgtg attgatgatg ataaaagcca cggcctgtgt    300
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 cctgtcctgg agactcctga tggctcctgtt tttgagagca atgcaattgc aagatatgtt 300  
 actcgcttga aggctgataa ccactttat ggatcttcac tgattgatta tgcccatatt 360  
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 cgacctgect cgttcatgcc cgacggaatc ggtggaggcc tcgatgtgcc caggctcggt 300  
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tgccacaagg agatgataat gaagcaggag caggcccagt tggctgcctt ctccatcgat 240  
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 gcttcactct gtatagatat acatacatat atatgttagc tagtagcatc gaacacttgt 180  
 cccggtgggt ggcggacgga gatagtgttt ccctgcgtgc tgctctgtgt aaactgaaaa 240  
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<210> 27512  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-034-Q1-K1-G7  
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aagaaagcta attgatggag gtttggactt cagtcgcctc gataatatta ctttggtgca 240

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<211> 86

<212> DNA

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<211> 347

<212> DNA

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gtcgtcatc gccaacgct acgggatgcg gcgcgacgtc gtcagccaca acctcagcgg 180

aatgggatgc agcgccggca tcatcgccat cgacctcgcc aagcgctgc tccaggtgca 240

cccgacacg tacgcgtgg tggtagcac ggagaacatc actctcaacg cctacatggg 300

caacaaaccg ccccatgctg gtcaccaaca cgctttttcc gcgtcgg 347

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caagatcgag gaagagcttg aattggaaat tgccaaaagt gagctgactg aacttaagaa 180

ggaatgcgtt gaagcaatgg agactcaact caagagggag gagtttcaag atgaggagat 240

gcctgatgtc aggaaattgg acatcagaaa ctctctgtag gcctgatcga cgataatctt 300

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<212> DNA

<213> Zea mays

<223> unsure at all n locations

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ggcggcatgc tgtgcctcga catgggcacc gaggagcgcg ccaaccgtct catgcaccac 240

ctncagaaca ccaccagtt cggcctcatg gccgtcagcc tcggctacta cgagacgctc 300

atgtcctgct ccggcagcag caccagcagc gagatgcccg ccgaggaccg cgcgcgcgcg 360

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<212> DNA

<213> Zea mays

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<400> 27520

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tgccgcccgcg ccgtcgtacc tgtccgctcg atgggtgacc gccgcagtga cgaccgcccgt 180  
cgcgctggcg ctggcgggct aagggtgtgcg ctcatatgct atgttttttt tataacttat 240  
tggaacccct atcttctttt cttttgtcca agtcgtgtcc cttccttggt ggtgaacaaa 300  
ataagaaggg ctatttttgg ttttttatat ttattaccgc attccattaa aaaaaattgg 360  
aggtgtgtgt gagtgatgta agtctggatt ttggtcaatg ggttgggggtg atcattttg 419

<210> 27521  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D5

<400> 27521

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aagcttatgg aaaaacgggg atacggagag gagtatataa atcgctataa aatgatgaca 120  
aggttccatc atcaacgggt tccactagta attttggtgt gtggaactgc ctgtactgga 180  
aaatcaacaa tcgctacaca acttgctcag aggctcaatt tgccataatgt tttgcagacg 240  
gacatggtgt atgagctgct gcggacatca acagatgcgc cacttacttc agttcctgtg 300  
tgggctcgcg attttaattc acctgaagag cttatcactg aattc 345

<210> 27522  
<211> 308  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D6

<400> 27522

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aaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat 120  
aaaaaaaaa ataataaaaa aaaaggcctt cttttttaa gtttccaatt ttacttacc 180  
ttgcatttta actaatacct tttatttagg gtcacttaat ttaatttaatt tgtccttctt 240

ttttaaactt ttttaattgga aaaaccttgt ttttaccaaa ttaattcact ttgtaaaaaa 300  
 ttcttttt 308

<210> 27523  
 <211> 346  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D7

<400> 27523

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 aacgaaagag aagtatgaag aaattcgtga acgtattata gaggaacctt ttgtatgcaa 120  
 aagagctcgt gaatggagac ctgatgtaac atgcaatgac ccagaagata tatctcagga 180  
 tggtagcagg ctttgggcta ttgacaaacc caatattgca caaccccctc gcggatggga 240  
 aaggcagatt aggataagag gtgaaggggg taccaaattt gctgatgtat actatacctc 300  
 tcctactgga aggaaactta ggtctctggt tgaagtcgat aggttc 346

<210> 27524  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D8

<400> 27524

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 gatttgaaga gtatatgtgg acataacttaa agttggattt gggtcttgca ccaaaggagg 180  
 tattatttat tctgttgcca tatctttaat caagaaagat agttttctgc aagctcttgg 240  
 tattcttcgg caactaaaga gtttggatct taaattaagc aagggagcct tgtcaactat 300  
 agaagaagaa ttttaacaagg aaagcaaatt ggggatatga tgaatttggt ggaaagagtg 360  
 gagatgtttc cctgagttgc gtcttcgcaa caaaaatctt gtgtctgtgt gtacaaatct 420  
 tggcactgat 430

<210> 27525  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-034-Q1-K1-E1  
  
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 actacaccaa cgaattcgac ttctgccgct atgagcagca agcttctgaa gaatcctgcc 180  
 ccatttccga gtagatcttg agagctctac ttgcagggat ctttgcaaatac acagaaagaa 240  
 aggatcgaca acctagttca tga 263

<210> 27526  
 <211> 61  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-034-Q1-K1-E10  
  
 <400> 27526  
  
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 g 61

<210> 27527  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 tacacttcgg taccaactga tggatctcct ttgatcatatc acaagtcctt tgatcacagt 120  
 cacacagaag tgagaactaa gttcacagct aagactctta gcgatacaag agatgcattt 180  
 gtcgccacaa actcaatcac catcatctta ctccctcggac tcagcctcgc cactcttctt 240  
 gttgcccttc cttgagtacc gaagtgtatt ttatgtcttg ttgggttacct ggaatttaata 300

taagaccatc acttgtatc

319

<210> 27528

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E6

<400> 27528

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aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 120

aataaaaagg ggcggccctt ttccatttta aaaaatgggg gctttttttt aaccaaaaag 180

gggggggtga aatttttttt aattttaaaa ccctttggga aaacattctg gttctttttt 240

ggaccatttt ttttttcctt ttaaaaattc tatttttttt ttggggcctt aaccttgggt 300

tcctttttgt tttccccctt ttttaaaact ttttttttgg cctccccctt ttaaaaatcc 360

cttttttt 367

<210> 27529

<211> 186

<212> DNA

<213> Zea mays

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<400> 27529

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gtagctacat tccccctccc accacctcca cacatcaact tctgcttcac ctttttttagc 120

atcaatggat ggccggttgt ttttaatgcg atgatctgca gttatcgtgg cagaagctct 180

ttgtgc 186

<210> 27530

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E9

<400> 27530

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cgaggcactg gagccagttg cgaggtcaca gtgaatcatt gttcttttagc actagcagcg 120  
tgaaaactga tgtaaaagat atcagtggac cctgttgtat ttgactaatg cttttgcaca 180  
gcaacataac ttcagagggtg gaatgtctat ccctttctct atgggatgct tgtagctata 240  
caatcatcga gctcttaaat tacatgatct aacgcagct catcgagctc ttaaattaaa 300  
aaacaagaag atccaaccaa gcaacaatgt tggatgtag ccgaaaaaat agaattatta 360  
aaa 363

<210> 27531  
<211> 382  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F1

<400> 27531

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gtggaagttt ccaactggtg attgcatcca ctaggtgcaa tccaatTTTT gcgatggtga 120  
cgaaaccaag tagaagatgg caccctaaca agttatatta tttccttttc ttatcctgct 180  
tagatccaag gatgtgatgg tctgaaccct aacgggtctcc tgctatcttg atttgacgtc 240  
tgggagacgc ttgattccgt gcctgtgggt tgtaaagcgt taaaacttga ctttgctagt 300  
gtactcccaa tgatataacc caatcctggg taaacaaacg catggggatg aaatttggac 360  
gaaaccctgg acaactgatg tg 382

<210> 27532  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F10

<400> 27532

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caagggcggc aaggggctcg ggaagggcgg cgcgagcgt caccggaagg tgctgcgcga 120  
caacatccag gggatcacga agccggcgat ccggaggctg gcgaggaggg gtggcgtgaa 180

gcgcacatctcc gggctgatct acgaggagac ccgcggcgtg ctcaagatct ttctcgagaa 240  
 tgtcatccgc gacgctgtga cctacacgga gcacgcccgt cgcaaaaccg tcaccgctat 300  
 ggacgtcgtg tacgccctca aacgccaggg ccgcactctc tatggcttcg gcggctaggt 360  
 taggtgtggg taattgcctg tccaggtgtc tcggatctgt ggtacta 407

<210> 27533  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F11

<400> 27533

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 aatgatgacg acgaccatgt taaaaagaag attcggctgg gtgctcctgc aacacagtgg 180  
 atttcagtat acaattcaag gcaacctatg aagcagaggt accactataa tgtggctgat 240  
 gcaagggttag cgcaacatgt ggagaaagga aatgaggatg gtttgttgat aagttcaata 300  
 tcatcatgcy caaatctttg ggcaatcatt atggatgcag gaactggctt ctcagctcaa 360  
 gtttatgagc tatcttcaca ctttcttcat aaggagtgga tcatggaaca attggataaa 420  
 agtt 424

<210> 27534  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F12

<400> 27534

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 gcggctgcca gccaaacgtc tgctgcagca agttcggcta ctgcggcacg accgacgagt 180  
 actgtggcga cgggtgccag tcgggcccgt gccgctcggg cggcgggcggc ggcggcagtg 240  
 gtggcggttg tgccaacgtg gctagcgtcg tcaccagctc cttcttcaac ggcatcaaga 300



accaggccgg gagcgggtgc gagggcaaga acttctacac ccggagcgcg ttcctgagcg 360  
ccgtcaaggc gtaccagcgc 380

<210> 27535  
<211> 400  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-034-Q1-K1-D2

<400> 27535

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ggctcggcca cgctcgccgc aagttcggca aggccttcgg gatgaaggtc accgtcatca 120  
gcacgtccgc cagcaagcgc caggaggcca tcgagaacct cggcgcgagc gagttcctca 180  
tcagccggga cgagaaccag atgaaggcgg cgacggggac catggacggc atcatcgaca 240  
cgggtgctggc gtggcaccgc atcacgccgc tgctggcgct gctgaagccg ctggggcaga 300  
tggtgatcgt gggcgcgccg agcaagccgc tcgagctgnc ggcctacgcc atcgtgccgg 360  
gcgggaaggg cgtggctggg aacaatgten gcagcgtcag 400

<210> 27536  
<211> 468  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-034-Q1-K1-B8

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gcgctatgca aggggcacatn naaatgatat atgttcatca tagtatttta gtaaccatn 180  
tngagtaatt caatttctgt tgtcacgtnn catgtatgtg actgannagt gtaaatttct 240  
tccttagctg ggctcagagt gaagnnnttt gttgggaatg taaaaattag ttttaatcga 300  
catactgtgg atttgggttt caattccaat ccaaaccctg gtagtgtgcc ttcaaattta 360  
gtgctgtact attaagttta aagttattat taatgtgaat attaaatata aattttctga 420

taaattgttg cctctgttga tacacttatac aaatagttaa aatggata

468

<210> 27537

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-B9

<400> 27537

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ccgccgccgt tgcagtcgcg gccacatcgt cgcctatcca tccccaccgc tcccactgcc 120

acgattcaca agaggtgtcg agatgtctca gaacaacccc tcccagctcc tcccctcaga 180

gctgatcgat cgggtgcatcg ggtccaagat ctgggtgatc atgaaggggg acaaggagct 240

cgttggcacc ctctgcggct ttgatgtcta cgtcaatatg gtgctggagg acgtcaccga 300

gtatgaatac actgctgaaa ggcgccgcat tacaaaaactt gaccagat 348

<210> 27538

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C10

<400> 27538

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gctttgcttg aaacgtaacc ctgcatctcg tgcttctgca gtccagctga tggatcatcc 120

ttttgttcag gatcaccctg cagtgcagagc tgcaaaaatcc agtgtattga gaaacacacc 180

atcttctcca gcagatggca gacacacaat gtccaacagg gagttgccat ctcggaataat 240

tataactcct ctgaaggata ttggactggg catgagagat tttactggat tttccactac 300

tgttccttca ccacacagtc ctattcctgg aagagcaaac atgtctacgc cagtttcacc 360

atgctcaagc ccgcttcggc agtttaagc 389

<210> 27539

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C11

<400> 27539

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gcctggcact aatgaggaga ttgtccagtt tgcttgact cgcttcaagg ctgagtatcc 120  
aattttcgac aaggttgatg tcaatggtga caatactgca cccatttaca agttcctgaa 180  
gtccagcaaa ggtagtctct ttggcgataa cataaaatgg aacttctcca aattcttggt 240  
tgacaaagag gggcatgttg tggagcggta tgcaccaaca acttccccac tgagcatcga 300  
gaaagacatc aagaaactac taaggagttc 330

<210> 27540

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C12

<400> 27540

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gaggagctga tgaaggctca gttggaaaca acaacaaaag taaaacagct tagagaggtt 180  
catggagcct ggttgccacc atggtttagcg acacatgcag cccgctctat ggaggtgatg 240  
tcaaatcact ggaatgaaca tgggaaacct gcctttgaca gcttcttgca gaaggcatct 300  
gaaaaaacag tgcagacaaa gaaatgggct ggcctcatc tggaaactgc taagacaaaa 360  
tggatgcctg ttgctaaaag aaaaatgggt ta 392

<210> 27541

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C4

<400> 27541

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aaattgtcaa gcgaggtttg gatcatctag gagcttttgg atgatgatga tgggtgctgga 180  
tatttagggg tgggttggtta tttccgtatg taagatgtat gcccctgagc tcggcagttt 240  
ttgagctctg cttaagattc tcacagttaa attgttttat gtaatttggg ccttgagatg 300  
tttttgaacc aaacagctaa aagagttcag ttgagttaac tgggtgccat tattacatta 360  
tgagattctt tg 372

<210> 27542  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C5

<400> 27542

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gtccgtagag cagagcagat cagagagcgg ggaggaagaa aaaccgatcg atggcgcca 120  
actacgtgga cacaacgggc gaggaggac ggttccacgg ccctcacagc cacagcacca 180  
gcacgacccc gacgggcggc gcggcgggcg cgccatcgcc gcgcaacttc cggcgcagct 240  
tctcttcgcg gtcttcgcg ggccacagcc acggcgggcg cggcggctgt gccaag 296

<210> 27543  
<211> 439  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-034-Q1-K1-C6

<400> 27543

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aagcgagcaa gtggagatgc tgatgaagat gatcaaagtg cagacactga taatgaagaa 180  
gagaatgatg atgagcatcc catcacgcat gccataagg ggaccctact cacgcgtaaa 240  
agattgcggt acatgccggc ggatatggag gatgtaggtt tcggcaactc ttccagctca 300  
catgactgta gctggagatc tgatccncat agcattgcag tggacatcaa caaagcttct 360  
ccagatggaa ctaacttggc tttcngttca aaaagacttg gctacacagt ctgcnagat 420

tgagaaacag cgcatggaa

439

<210> 27544  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C7

<400> 27544

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gggttggtgac atggaggtgt tcacgaagca gtagagccta gagtagagga ggaactgagg 180  
aagggtacagg gacaaagtag ctatccaaga ggttgctgcc tgatggtgac gtgaacagtg 240  
aactgcagcg atcgaaaatg ttggccgttc gaacaccaca agtttttttt ttttgcttga 300  
tcaaaaatgt ttccttcttg attggatgcg aatacgtgat tctgtgctgct acaagcgtca 360  
tcggaggccc at 372

<210> 27545  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C8

<400> 27545

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tgtatgtagc tgtgtaataa agttcagggg atgtaaattg acactcctac caagtatgct 180  
gatgtatggt ctcatgcgtg tcgggggttc ttatacatgg tttgtgttag atttagtatg 240  
aagatgacct ctattttatt tgatacaaatt cgaataaatt gtaggtttat attaaaaaat 300  
aataa 305

<210> 27546  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-C9

<400> 27546

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aaaattggaa tcgacatatt tgggtcttgggt tttttgactt ctatgggtatt catatttctg 180  
gttggaatat ttgtttcttc atgggttgggt tcaaccatct tctgggtggg cgagtgggtt 240  
ataaagaaaa tgccatttgt aagacatata tattcagcat caaagcaagt cagcactgca 300  
atttcaccag atcaaaatac gactgctttc aaagaagttg caataattcg tca 353

<210> 27547

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D1

<400> 27547

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tgtacatggt gacaagataa ggtacaggag aattgatgaa agaagcggtg cgggccagtc 180  
gtcgttgcac gagaacaaac acataaatta aaacattatt acaggagtag ggtatttatt 240  
gtattgttca ggccagaaaa atatgtggaa agtgggtctt taacttaatt cggaagaagc 300  
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<210> 27548

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-D10

<400> 27548

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cgccgcactg ctctgatcg ccgacgtcgc ggtgtccgtg ctcgacatga gcaccgagca 180

ggtgagcgac atgaacaacg agcagggtcaa gacgagccac cccgcggccg ccacgacgac 240  
 ggaccctcc gacgcgccg cgaggcgta ccgcaactcg ctgtccgggg ccgacaacaa 300  
 gtgccggatc ggctacaaca ac 322

<210> 27549  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-034-Q1-K1-D11  
  
 <400> 27549

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 ggcacagact tgcataatcg gaaggaatcc gttttgacaa gatcaacgat gaatcagagt 120  
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 ttgccaggcg atttgaggaa gataatgtca acataactgc aaattctctt catcctggtt 240  
 ccattatcac gaaccttctt cgctaccaca gtatcctaga tgttctccat cggacgctgg 300  
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 ccaactcgct cgctccggc tactcccgcg gcaccggcct cggcgccgag atcatcggca 240  
 ccttcgtgct cgtctacacc gtcttctccg ccaccgaccc caagcgcaac gcccgcgact 300  
 cccacgtccc ggttctggct cccctcccca tcggttccgc cgtgttcatg gtgcacctgg 360  
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<223> Clone ID: LIB3067-034-Q1-K1-B3

<400> 27551

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 tcgcttgcca tgtcaccggc agcatccgcc gccgaaacca tcgtcgtcgc aatcgcaagc 180  
 gtcccagacc agcagcagag cagccaccgc gcccgggcgc cgtccgtccc gtcgtcctac 240  
 gccgtctggg agaaggagcg gtaaggcgtc tgcagcttta cgacgtcgtc gtcgtcgtcg 300  
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<223> Clone ID: LIB3067-033-Q1-K1-H5

<400> 27552

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 ctccgtccag gacgccgtgc tgcacgtga tccaggggct ggcggaacct taggcggcgg 300  
 tgtgcctatg caccgtcttc agggccaacg tcctgagcat caacctcaac ctgcccata 360  
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 <212> DNA  
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<223> Clone ID: LIB3067-033-Q1-K1-H6

<400> 27553

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tcttttttct tcttctcgta gagatatttc ggaagaggga gtgcgtgcct tcctctcagc 180  
tgattcgccg aggacacgag atcctctaga gggttgtgct gtttggcgtg aggctttagg 240  
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gtcccagatc ggtgaggcag cggggctatt gtccggcggc aaggaagaaa cgaaggcgtc 360  
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<210> 27554

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H7

<400> 27554

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ggcctcgcct gtgccactga cgaccactcc ctccacaacg ccttcagcac ctactgagag 180  
gtcctcgagt ccacgattat tctcgatcgg gagactcata ggtcccgcga cttcggcttc 240  
gtcaccttct cactgagga ggcgatacag aacgccatcg aaggcatgaa cggcaaggag 300  
ctggacggtc gcaacatcac cgtcaacgag gccagtcctc gcggcggacg cggaagctgc 360  
ggctgc 366

<210> 27555

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H9

<400> 27555

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atggtgcaag aagctgattg tccagaagag gagggctgcg ctcaagtact ttgacaggtt 120  
caaggctcatg ctgtcaagga tcaagagggg tgggtgctatc aggcacgagc tcgccaagct 180  
gaagaaggcg ttcacggctt aagtccattt tgggtggatga catgtcagct tctggtttca 240  
tgttggatca gcaatctggt ttgagtgttg tcaaagccag aatcagtaat atgttctctg 300  
cgtaccggtt ctaaacttca tcaagaatga ctgtgctctg gatatttcgt cgggacatga 360  
tatggaacac ttaaaagttc gctgtcaaaa 390

<210> 27556  
<211> 238  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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taggctgaga gaaactnaac tgatcgagtc tgtctggcag gcatcgatct atccagtcgt 180  
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<210> 27557  
<211> 347  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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caacngganc aacagcctat gaggaannnn ctggcttttc acaacacaca ctgcagtcac 180  
ttacagtgga gagattgcgt gcacttctac gacaaagtgg tcgatcgacc aaaggcaaaa 240  
aggatgaact gattgctcgc ttacgggagt cgcagggttg acatgaatct ggtacttgtt 300

tagtcaatca aaccccttca ggctaggggtt acaogaccaa atgagta 347

<210> 27558

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-A11

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actgacaata gattattgac cgcagccaaa tctattgtgt ctctggccaa ataaatattt 120

aatcacaaag aattctataa ctacaaaagt ctaaagctgt tttgttacg 169

<210> 27559

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-A2

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aaaaggagct ccagtcacctg agtgcccgat acctggagaa agttggaaag aagtcaaaca 120

tgacaatact gttacatggt tggccttttg gaacgatcca attaaccxaa aggatttcaa 180

gtatgttttc ctggcagcaa gcagctcact gaaggggcaa agtgacaaag agaagtatga 240

gaagtccaga aaattgaagg gtcatatata aagaattcgt gagaattata caaaagattt 300

caaaaacaaa gatgtgacga ggaggcaaat agctgtggca acatacctta 350

<210> 27560

<211> 297

<212> DNA

<213> Zea mays

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tggtcagtag gtagtaccat ggcaaaaagt ggcaactctgc tggccctaac ctctctttt 120

cgcttcgcga cgcatgcggc tgcaggtgcg gcggatcctg ccctagtcca ggcgggggtgg 180  
 cgggtggcggg ggagatctgg ggtggtggtg gtggaagcgg ggggtggagt ggaggggggt 240  
 cgggtgggga gtggggcggg gatctggtgg agcggcagag cggtggggcg gggatct 297

<210> 27561

<211> 214

<212> DNA

<213> Zea mays

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<400> 27561

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 tgacggccgg cgtcgatacc gccgctcagg ccgacgttac gccggcggac gcggttacgg 180  
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<210> 27562

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-A7

<400> 27562

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 cgcgcggcca agttatcctg ttcgctaccg tgatgtttac cctagtccag agggttttatc 240  
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<210> 27563

<211> 417

<212> DNA

<213> Zea mays

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ctcagatttc aaaagtagtc agtgctggat gaagaatggc ctcgcaatgc aagactcgat 180  
ggtacgaagg aaaacgatgc gcttggattc cgtgaaggaa cgatttcttt gtcagcacct 240  
cagaatttgg ccacttgaaa gaatctgatg cttgaagttt cctggttctg tgtacacaag 300  
tcggctcaat gtcagaattg agccgcttga aatatattta gttatattct atgcggagag 360  
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<210> 27564

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 27564

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gctcgtgccc ggcaagatcc aacacatcat ctgcactggc aatctctgca tcaaggaagt 180  
ccatgactac ctgaaaagcc tttgccctga tctccatatt accagagggtg aacatgatga 240  
ggatgctcga tacccaaaga ctaagacact tacaattggc cagttaagc ttgggctgtg 300  
ccatggccat caggttggtc catggggcga cctggactcc ctggcgatgc tccagcggca 360  
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<210> 27565

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-B1

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atgatgagtt ggcgttgtag actaagatga accatgtttg tgcaat 166

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<223> Clone ID: LIB3067-034-Q1-K1-B12  
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atctt 365

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<400> 27568

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gccgagttca aggaggcctt cagcctcttc gataaggacg gcgacggttg catcacaacc 240
aaggagcttg gaactgtcat gcgttcactg ggtcagaacc caacggaggc tgaactccag 300
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<223> Clone ID: LIB3067-033-Q1-K1-F7

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<223> unsure at all n locations  
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gataacgaga gctaggggtt tgattccagt actcacgccg catcctgtct ccttctgccc 180

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<211> 431

<212> DNA

<213> Zea mays

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gagagagttc aggctgaaag aaatatttct atgcagcaga aagaaaacgc agaagctatg 120

ttgagtacta aagaagaact ggaagcacag ctgtgttcag caaccactga aatggggaaa 180

ctgcgtgaca tgggtcaaagc actagagaat gaggtcaaaa cggagaaggc actgcatgaa 240

gaactaacag cacatataca gataaagggt gaagcagctg ttgatgcagt taaagaacca 300

ttggaagcac aactgtgttc aacaaatact gaagcagaga agctaagaga tgttgtcaaa 360

gcacttgagg atcaagtaga aaaagagaag gcattgtgag aagagcttgc agcaaaggta 420

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<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 27572



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<210> 27573

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G12

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<210> 27574

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G2

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gttgtgtgca tggagaaggt tgtgtatggt gctgagcagt gtaagaggcc atttgagcat 360  
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<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gacggtggag ctacccttgt gacgggtggt gatagggttg gtgacaaggg tttctacatc 360  
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<210> 27576

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G4

<400> 27576

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<210> 27577

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G6

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<210> 27578

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G9

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 attacttctt tttgttgcc ccctaattta atttccctgg ccgtcttttt ccaacttgcg 240  
 tcctggaaaa accgtgggtt ccccaaattt tttccccttg ctgcacttcc ctttttgtcc 300

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<400> 27579

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tattatgatg ttgacgatat tcggtgaaaa aagaatatca agcaaaaagc tcaacaaaaa 180  
agaaaaaagc aaacaaaggt aaagcgcact aggggtggccg acctgactgc cgcttgcttg 240  
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<223> Clone ID: LIB3067-033-Q1-K1-H11  
  
<400> 27580

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gcttccattg taattctcgc catataagga ttttttttct caggagccgt gtgcagtgtt 360  
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actttttttt tt 432

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 acgtcgacga gctgtggcac caggacgcgg cctgtacatt gatcttgggg gggcctcggt 360  
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 gcatacaata cac 433

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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-033-Q1-K1-H3  
  
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 caacttcaca cggttttcac atgacagctt tttaggtaat cctggactct gtggatattg 180  
 gcttggttct tcatgtcgtt ccaactggcca ccgagacaaa ccgccaatct caaaggctgc 240  
 cataattggt gttgctgtgg gtggacttgt tatectcttg atgatcttag tagctgtatg 300  
 caggccacac catccacctg ctttttaaaga tgccactgta agcaagccag tgagcaatgg 360  
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<210> 27583

<211> 274  
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 aatattagct tttgctgtac attctgtaaa tttttccggt gactaggatt cttctttgta 180  
 cgtaacattc agctaacttt ttgtacatca agcgaacca gaaaaaaaaa aaaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa aaaaaaggca aaaa 274

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 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-033-Q1-K1-D7  
  
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 gccttcttcc gactgcaatt gattccaccg attttgaggc ctgctgcgg gatgcccggtg 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-033-Q1-K1-D8  
  
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aacgctctgg gatcaaccgc cactgttctc acatcagcag atgtgatgga tgaaaactcc 180  
ttcagcaacc caaccaaggt tgtgccggta aagagcgatc tgagcaatgc tgcagagcag 240  
atgcaggtea cgctggctcc tcgtctcttc agctcgctcg atctcgccct ggctcagtcc 300  
aagcttgtag cggagatgtg agctaggctg gtacactagt atacaatata acgtgtgaag 360  
tgtggtacac atataccagc aaccacaggg gttgccaagc tgttggttagc atcttgaaca 420  
catggctttg tatggtgtat aatgacat 448

<210> 27586  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-033-Q1-K1-E10  
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actaagcaga cagaatttaa aaatagaatt ctcagatata caactgtgcc tcctattcca 180  
tgaaccccca tatctcagca actcattcta tagtcttacc actgtaaaga caactattca 240  
taacaccaat ttcatatat 259

<210> 27587  
<211> 427  
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<213> Zea mays  
<223> Clone ID: LIB3067-033-Q1-K1-E11  
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agctgtttgg gaacgggatg ccggtgccgt tctacggcga gatgttcgtc ctcgtccgcg 180  
acggcgtcga gttccacgtc gacaagatcc cgtcagctcc tggaggatcat gtgaaaacaa 240

aaggcacaat ttacctgtcc aatataagga tgggtgtttgt tgccagcaag cctgttggca 300  
 acttcctttgc ttttgatatg ccactgtttgt ttgtgcatgg tgagaagttc aatcagccca 360  
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 gggccct 427

<210> 27588  
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 <213> Zea mays  
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 gaggcggatg cagaggcgaa gctgccgttg ctcccgtcgc gtctgcacaa gtccgccagc 240  
 gacaagtcgg cgttcgcgca ctccggcgcc taggaggtgg aggagaccgt gcgcgcggtg 300  
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<210> 27589  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-033-Q1-K1-E2  
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 gatgcgagat agtggtgaaa caagtcctgt cttgcagtac agggcccata cagtgggtgcc 180  
 aggtcagggtg ttgaaaatgg aagaagctat caagaaccgt gactttgaat catttgccaa 240  
 attaacttgt gcagatagca accagtttta tgctgtatgc ttagacacga gctctcgcat 300  
 gttctatatg aatgacacgt cacaccggat aattagcctt gtggaaaaat ggaaccactc 360  
 agaaggaacc ccac 374



<210> 27590  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-E4

<400> 27590

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tctatcgtct gttaccgctc gatccctccc cggatcaact ggctcggtag ctagttgggg 180
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tatccacag gtccggagtg ggcagacga aggggtcgtg catgccatcg tactcgtacg 360
cgacgtggtc gtagtactcg ccggtcgccg tcgagtcctc ggaggcgtct act 413
  
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<210> 27591  
 <211> 445  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-E6

<400> 27591

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tcatcgcgac tatgcagaac ctgaaggccc tgggtgtgat caactactgc agcggcagcg 180
cggccctgga caacctctcc gccttcacca cgctgagcgg gctgaggagc ctgtggctgg 240
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cgtcgagcgt ctgccagatc gggtc 445
  
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 <211> 435  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-E7

<400> 27592

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acaatgacct ctggttgact ttgaaggatc cttccgttga aaactaaaca atcgcttgta 180  
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ttttatgtcc attttctgcg actatggata gcatgagtat tctgctggcc tgaattcccg 360  
gtgtaaacgg cttctgaaat tttgaatcat tgataaacta atagtgtttg gtttgaggaa 420  
aaaaaaaaa taaag 435

<210> 27593

<211> 426

<212> DNA

<213> Zea mays

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<400> 27593

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aggatgtaac ttctccagga attgcaccat tgccgtcatc aagccaaga gtgcgtcatt 240  
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ctgaaaaccc acccgcaata gtttttcata aggattctcc aaaaggattc aagaggcttc 360  
taaagtttgc tcgaaaaaac atgggagaca acaatgctaa cggctgggca agcccctcgg 420  
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<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F10

<400> 27594

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agcccgcgcc gatcgcgccc gcgcccgcgc cgtcaggagc aaatgatggg aaggaagagg 360  
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<210> 27595

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F12

<400> 27595

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<210> 27596

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F2

<400> 27596

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tgggtagaag tagagcgtca agaactagaa gtcactgttt cgagtgaaaa tgtagttggt 180  
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tcgttgtcac aaatgctgca agcagatagc aatgaaccag aaattattga gtgggggaaat 300  
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<210> 27597

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-F3

<400> 27597

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<210> 27598

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-D6

<400> 27598

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acagaactgg ggattataca agaagccggc agctttttaga aagatgctta gagatccaac 360  
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gtatgattgg catggctatc attaca 446

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<210> 27600  
<211> 367  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-033-Q1-K1-C1  
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ctggata 367

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<211> 406  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-033-Q1-K1-C10  
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<210> 27602  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-033-Q1-K1-C11  
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 cattatgtga taatgggggt gttgtaacta tctggtatcg tgctcctgag ctgttacttg 240  
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<210> 27603  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 aacaagccag accagggttc cgaggcacca gctgcccagc gatctgcatg ctgcggttca 180

taagcagacg cacgatagcc ataatcattg gttatttgac actatttatt tcttgccttg 240  
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tgtttgcttc cactcttcga agcaaacacc tcttgctgtt gacgtagcta ttgcactctg 360  
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catgtc 426

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<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-C2

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cgctctcaag gagctggagc tgctcagcga tggggccaac gtgtacaagc tcatcggacc 300  
tgtgctggtc aagcaggacc tcgcggaggc caaggccaac gtcaagaagc gcatcgagta 360  
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<210> 27605  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-C3

<400> 27605

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ctgggggccc gcaacttcgg cgtggcgagg ctggtcaggg acaagcggac caaggagctg 180  
gtagccgtca agtacatcga gaggggcaag aagattgatg agaacttgca gtgggagatc 240  
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 <211> 142  
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 <213> Zea mays  
  
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 gatgctatca agcttgccag ggatgtttat ccttcatgtg acaggacatt tggagtctta 300  
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 atcagtccta atgagaacga cgtgggtgaa actctttgtt cgttgaactt cgcgagcaga 360  
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<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-D11

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 atctttggct cattctgaag ccaaataact tcatgagaag atccataaga aggcttacag 300  
 tgatgaggag atcattagaa ttctgaccac acggagcaaa gctcagctac ttgcagcatt 360  
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<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-D12

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 gccagctag gtattggatc agttgtcttg ggaactgttg agagcctaaa accttatggt 240  
 gccttcattg acatcggcgg aatcaacggc cttctccatg tgagccagat tagtcatgac 300

cgtgttgcag atatctcaac agttctgcaa ccaggagata ccctcaaggt tatgatactg 360  
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<400> 27613

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aaagaggggca agctgaatct attgatcaag atattgaaaa catgggttcga tcttatgttg 180  
acaagctaaa tagcatcatc tcggctatctt acccatctaa ccaagatata gcaacgacag 240  
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caaatcttga tctgatggac 320

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<211> 373  
<212> DNA  
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<223> Clone ID: LIB3067-033-Q1-K1-D3

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gagctccgct ttgttctgat ggctgagaat tcgccaggat gtttcatttg tttctgacag 180  
tattggaaca gttttccttc tgccgttgta gttgaggaat gattctgtag gatgtgttgc 240  
gggtgaaaac ttcccttttt cccccctttt aatcaggata gccctttgtg ggctcaaaca 300  
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<212> DNA  
 <213> Zea mays  
  
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 ctggaacatc cggacacggc tcctaggaag gcacacacgg ctaatcagaa ccggcattca 180  
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 ctcaatacca agccagggt gaagtcgctg gcttgaaata gagagcatgt tgctcaggtt 300  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-033-Q1-K1-A3  
  
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 aagatcgtgg ggtttgtact tgttctcctt tgatagctgg agtctcgatt tcgagtgc 180  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-033-Q1-K1-A4  
  
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 ttgcatcata cttctgacct tgcagtactt ctggagccat gtaaagtggg gaaccacaaa 180  
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acagagtatt ttcattatatt tcaacaagaa gaatgttctg aggttttagg tctcggtgaa 300  
ccacgttatt atcgcggaagc attttcagac cagatgctaa ctgacggatg aagtgccttag 360  
caaccttttc agaaactctt ttatgacgtt gaaggatatgc atgtaagtca ccacctcgac 420  
aatactccag tatgagatat atac 444

<210> 27618  
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<210> 27619  
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<213> Zea mays  
<223> Clone ID: LIB3067-033-Q1-K1-A6  
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aaagttaacc gactacatgt tgaagtagtc atagtgattg cacatattgc atctgattca 240  
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cattttcatt tcctaaatag ttgtttctcc taggcctag tgcggtacat tccccatgcc 360  
aagacaatct tattttaatt tgacaatgga aatgacttgt tcgtttgact tataacttac 420  
taacagttca ataactctcg t 441

<210> 27620  
<211> 426  
<212> DNA  
<213> Zea mays  
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tgctcgcaaa gttcacaaga agtggcttga tccggcccat tgccttcttg ccattcttgc 300  
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tgaatg 426

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catcattgtg ggtaccacac ccaaggacag ggatctacta cccaagggc tttgaatggg 240  
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catttgcttg atatatgaga ggctttgcac tggaataaaa accattgaaa gacacagctg 420  
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<213> Zea mays  
  
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 <213> Zea mays  
  
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 <223> unsure at all n locations  
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cactctacgg ccgcagtgcc cgactcgcga cccagtgga ggtcactgat ggacaatgct 180  
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<210> 27627

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 ctaacttgga tgagatagtt gagctggcaa agcagctcca ggttaggggt gagaccaata 360  
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<211> 242

<212> DNA

<213> Zea mays

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 aa 242

<210> 27629  
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 <212> DNA  
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 <223> Clone ID: LIB3067-032-Q1-K1-G3  
  
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<210> 27634

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-G8

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<210> 27635

<211> 348

<212> DNA

<213> Zea mays

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<211> 314

<212> DNA

<213> Zea mays

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<211> 222

<212> DNA

<213> Zea mays

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<400> 27637

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atctccaggc cggctctggcc taagatgacg tctgcaaaga gcctgctggt cccacagaca 180  
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<210> 27638

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H11

<400> 27638

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tgagcagtca gcgtatcatt tagtgctca gcaacatact tgtacattgc gggcgaggaa 180  
aagaaggaaa catgtaaaat cagtccgagg gaaatggctc cagaaaagcc cctcagagcg 240  
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313

<210> 27639

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H2

<400> 27639

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gctcaagata gcgactggcg agatgccgaa gtccaacgaa caattcaaca tgggggatgca 120

gcacgtctcg tacagcggcc cttctttctt ccatctcccg gagcagcacg tagacattca 180

gctgccgcac catttccagc agcctgcgcg gaacgtccag atgtgtccc accccaactc 240

cctctcggat atggcgcagc aagactcgct tgggcggctc cgggggctgg acattggaaa 300

agggtccatg gcta 314

<210> 27640

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H4

<400> 27640

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tctagcaggt taaatgatct tgatctgcag ctaacgaagg agaaagagga atgccacagg 120

atgacctcaa aaattaaaaa gttccttaaa gcccatgctc gctttttgaa agcacaggaa 180

gaattgaaaa ggtcacaagc tcgttttgag agactcggtg atttacttgc ttcagatatt 240

ctgaagcgtg gtgctaataga agaagtttct agtatcaatg ttgatgaaga tccaaatggt 300

ccttatgaaa ggagcccaaa tgct 324

<210> 27641

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H5

<400> 27641

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ggaacaggca atcctttgca aaaacctggc cacgctgctg tctgatcttc ctcatatat 180

ggttcctttc aagacagccg accttggtatt taagaagcca caggatgatg gagagaaatt 240

cataaaactc ttacgagcat tggaagcata tgcagaaggt tcctcagtaa atccaatcat 300

cagaagagca gcctat 316

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<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H6

<400> 27642

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tttgaagcca gggctctcag gatggcagta aactgtgccc agaacatagg ccaagcagca 180

aaccaagaag aaggtttcta tgagcgggtcc cctgatttgc tagaggctgc agtagctcac 240

atccagttgg tcattgtaac caagttcatt tcgaagggtc agcaggacat tcctggacct 300

ggagtgaagg aacag 315

<210> 27643

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-H7

<400> 27643

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tttgaagcca gggctctcag gatggcagta aactgtgccc agaacatatg ccaagcagta 180

aaccaagaag aaggtttcta tgagcgggtcc cctgatttgc tagaggctgc agtagctcac 240

attcagttgg tcattgtaac caagttcatt tcgaagggtgc agcatgacat tcttggacct 300  
ggagtgaagg aaca 314

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<211> 316  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-032-Q1-K1-H8  
  
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ggcaagtgcg gcgtctccgt cggcgctgcc atcagcccca cgtcgactg caccaagatc 180  
aactgatcga tggaaccata gtggaggtag ctcgctcgtt ggatggcagc gtacgtggcc 240  
atcagcagca tgcagtcgtc gtcgtagcag agatgtccta gctacgtgtg tgtcatgcat 300  
cagactggca cataat 316

<210> 27645  
<211> 206  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-032-Q1-K1-H9  
  
<400> 27645

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ggtggtagag cgagaggtcg agaagatcaa tagcatcact gtgtctgcga ttctagttat 120  
ccaggtcact ctggtctctg atgacagctc ctaaggacct gctggtctct ctacgtatta 180  
gctgggctgt tgctgccagt gcaacta 206

<210> 27646  
<211> 251  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-033-Q1-K1-A1  
  
<400> 27646



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 agtgataata ataataatac gccctctcct aagccatgta ctcgggtggt gttgtggagt 120  
 gtgtggatgt gatacattcc ctagctgtat taaaagtgta actgtaatat cgaaaggcac 180  
 actccatcat gccacggggg gcaattcttc cgtccacttg ctcatacgac tcaccatcat 240  
 aaaaacaagc a 251

<210> 27647  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-033-Q1-K1-A10  
 <400> 27647

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 agtattcagg aagctcacag aatcatcgta ccaagaagaa aaagaggaaa acaagttgtg 120  
 agaattgcat acagcagttt cttcgtctgt ggcattccag acaaaaaatg tatgttggat 180  
 gttggatagt tgacttcgat caaggaacta aaatgcatac tctccagttc attgatcacc 240  
 atactgaaaa gtttgatttg aaagaagaag aatggcactt attggaggtc gactctgatg 300  
 aagattgata atcgaagggt tgtcatgggt tgctgtccag ccagctagtt cgcggttcat 360  
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 gcctgaattg t 431

<210> 27648  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-033-Q1-K1-A11  
 <400> 27648

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 gaagggcggt acaaaggcaa tggctcaa at gaacaggcag ctaaactctgc cagggttgca 180  
 gaggataatg caagagtttg agcggcagaa cgagaggatg gagatggtga gcgaagtgat 240

gggagatgcc atagatgatg ctttgggaagg agatgaggaa gaagaagaaa ctgaggagct 300  
 tgtgaatcaa gtacttgatg aaattggcat tgatatcaac caagagcttg ttggagccac 360  
 gtcagccgct gttgctcaac ctgcttcagc gggaaggggt gccagggctg aaagtgctgg 420  
 gaatgc 426

<210> 27649  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-032-Q1-K1-G12  
 <400> 27649

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 aacaagagct caaggaatat gcagatggca cgttgactga gattttcatt gaaagagttt 120  
 tcgatgagca tggtcgccgg agcaaagttg gaggtggaaa cagtcgtgag atggactttg 180  
 aaagctttct tgattttggt ttggctctag aaaacaaaga taccctgaa ggcttgacat 240  
 atttatttag gtgccttgat ctcaatggaa ggggtttcct tacaactgca gatattcata 300  
 ctctatttag agacgtacac cagaaatgga ttgaggggaag gaactatgag ctttgcatag 360  
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<210> 27650  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-032-Q1-K1-E2  
 <400> 27650

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 gaggatcacg gagatcgccg gtgtggtggt gacgttcgac ccgaagccga tcccgggcca 180  
 ctggaacggc gccggcgccg acaccaacta cagcacggag tcgatgagga aggagggcgg 240  
 gtacgaggtg atcaaggcgg ccatcgagaa gctgaagctg cggcacaagg agcacatcgc 300  
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<210> 27651  
<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E4

<400> 27651

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ctccgtggga aacctgtcac tcaaggagct gaagcagctg gagagccgcc ttgagaaagg 180  
catctctaag atcagggcca ggaagagtga gctgctggct gcggagatca gttacatggc 240  
caaaagggag actgagcttc agaatgacca catgaccctc aggaccaaga ttgaggaggg 300  
agagcaacag ctgc 314

<210> 27652  
<211> 268  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E6

<400> 27652

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ccttttccgt tcttctctca gccagaatgg ctgctcctac aagagggaaa tggaagagca 180  
ttaaccaa at gagcagatgc ccaaagctaa cgagaacaag cctgtgatta accaatgaat 240  
atttacagaa gctttggtca aagtgcaa 268

<210> 27653  
<211> 311  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E7

<400> 27653

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gtgtgggaaa atgcagcatc gctggtaggt gaatcagctc ctacagacat gcttcagaag 120  
 ttgacatatc tggctatcag acaccatact cagattaagc gtgttgacac cgttcgagca 180  
 tacacctttg gggtgcttta ctgtgctgag gttgacattg agcttccaga ggacttgcca 240  
 ctttaaggagg cacacgccat tggagaatct ctccaaatca agattgagga gctacctgaa 300  
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<210> 27654

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E8

<400> 27654

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 tacgtgccga cgtgggagca ggaccacatc cactacatcg acggcgggcg 170

<210> 27655

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E9

<400> 27655

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 ggcggcctcg cctgggccac ggacgaccac tccctccaca acgccttcag cacctacggc 180  
 gaggtcctcg agtccaagat taccctcgat cgggagacgc agaggtcccg cggcttcggc 240  
 ttcgtcacct tctccacgga ggaggcgatg cggaacgcca tcgagggcat gaacggcaag 300  
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<210> 27656

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-F10

<400> 27656

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gcagctgtac atcctgatcc ctagcccgag ccacaacact cttcgcacat ggagctgtgc 180  
atgtactagg ctgatgcata cgcgaagctg cctgtgctac cgtcgcgtct gcacaagttc 240  
gtcagctaca agtccgcgtt cgcgcactta ggcgc 275

<210> 27657

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-F11

<400> 27657

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tgatcaagaa ggcgatcggc aagctgggcc tccggcaccg ggagcacatc gccgcgtacg 180  
gggacggcaa cgagcgccgt ctcaccggcc gtcacgagac cgtcgacatc aacaccttcg 240  
tctggggcgt cgcgaaccgc ggggcgtcgg tgcgggtggg ccgcgacacc gagaaggaag 300  
gcaaaggcta cttcgaggac cggaggccgg cgtccaacat ggacccgtac gtggtgacct 360  
cgctgatcgc ggagacaacc atgctgtggg ag 392

<210> 27658

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-F12

<400> 27658

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cgtccgccgc ctgcgcgggc gagaagttcc cggcggggcg tgcgtactcg tcgtgcgagg 180

acctgccgaa gctgggcgcg tcgctgcaact ggacgtacga cgcgtccaag agtccctgt 240  
ctgtggcggtt cgtagcgggc cccgctgcgg ccggctgggtg ggtggcatgg ggctgaacc 300  
ctacggggcga aggcattggcc ggcgcgagg ctctgagagc gctggcagcg gccggagccg 360  
ctgatcccgt cgtgcggaca tacaacatc 389

<210> 27659  
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<212> DNA  
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<223> Clone ID: LIB3067-032-Q1-K1-F2  
<400> 27659

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agcagaacct gggggcccctg ggggtgctgag aacgggacgc gtttctccgt cacggcgccc 180  
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acctgctcca t 311

<210> 27660  
<211> 312  
<212> DNA  
<213> Zea mays  
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<400> 27660

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catgaaccat ttgaagcgct acttgcttaa tgtctctctt gatcatttgt gtagtgga 180  
tttgctgacc ttgtttttct gtgcactttc tgcccttcatt gcaaaatgtc agttttttta 240  
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<211> 314  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-032-Q1-K1-F5  
  
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 agtaaataaa ccatctactc tgcgtactga agatgatcaa cagtcagcag atggggagct 240  
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 aagggctggc atgatcttct acaggaaagg ccctaagccc cccaagaagg gccagcctga 180  
 ggggtgctgtt tatgattacg aagacaagat caactttgca gtgttcccat ctctccaagg 240  
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<210> 27664  
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 tggaagccgt ctgaggagat gcagctcgcg gtgatggatg ggttccaccc ggtcaccgtc 180  
 aacgccgtcg cgttctacgt cgacgcacgc ctagtgggag caacgccggc gatgttctac 240  
 gcccggccag atcatggggc tcacatcatggt ctctggcaca atagattcag cccactcacg 300  
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<210> 27665  
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 <212> DNA  
 <213> Zea mays  
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 <400> 27665

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<210> 27666  
 <211> 262  
 <212> DNA  
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 <223> Clone ID: LIB3067-032-Q1-K1-G1



<400> 27666

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caagaagcaa agcaatggag aaccctgcga gtgtgctagt tctaccagcg caagtcaaca 180

aacttaactt tcgaaaactg tacattcggc gggcccggcc cggccacaag gagattaccc 240

aagaaggcaa gttccaactg ga 262

<210> 27667

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-G10

<400> 27667

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cggagattgc ggagctgaga acaccctgaa gcccgagat gtcattccagt gccgagaatg 180

tggctaccga atactctaca tgaagcggac cctgcggatt gtccaatatg aagcgcgctg 240

aagagtgaag acaagggtaa aactgaaga tgggtgatct attactcgcc acattaccta 300

tgtatacagt cttttggtgg aaatgaaaat gtgagacaac gtttgcattg cctgtgcctg 360

ctctgaacct gagctggata 380

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<212> DNA

<213> Zea mays

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<400> 27668

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gcagtgaatg ctgaggcttt tataaacaag gcttcatttt tggtcaccaa cagccatcag 180

gaggttctaa acttacagta caaggtctgt tatgcaagga ttttggatct gaaaagaaga 240

tttctggaag ctgcacttcg atattatgac atttctcaaa ttgaacaacg caagattgga 300  
gacgaagaga ttgatgaaaa tgcacttgag caagctctta gtgctgctgt gacatgcaca 360  
atattggctg gttgctgtcc acaacgcttc cgtgttcttg ctactctgta caaagatgaa 420  
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<210> 27669  
<211> 361  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-032-Q1-K1-G11  
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caaacctacg aggattacag gttctatgcc atttcagccg aataccctga gttcagcaac 180  
aaggataaga ccctgggtgt gcagttctct gtgaagcacg agcagaagct tgactgcggc 240  
gggtggctacg tcaaattgct ggggtggatg gtagaccaga agaaatttgg tggagacaca 300  
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<211> 311  
<212> DNA  
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<223> Clone ID: LIB3067-032-Q1-K1-C7  
<400> 27670

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cggcactgtc ggaggagacg ccacgactgt tcctcaggat gcttcgccgc agcctgagtg 120  
ccaggtggcc gagcctgcac ttaatccaaa ggaggaagtt ctgaacgggg aggtttgtaa 180  
ctcgctaagt gatgtggaga agcctgttgc tgaggaaacg ccggttcctg atgtcataaa 240  
tgaagtgcc aataatgttg cagtggctcc accaatttca tcccctgctg taccattgaa 300  
ggaggcacca a 311

<210> 27671  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-032-Q1-K1-C8  
  
 <400> 27671  
  
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 ccaggcacta cctccccagc aagttcaaga agtttgtggt ccacaacgtt tctgagctgg 120  
 agttgctcat gatgcacaac aggacctact gcgctgaaat tgctcacaac gtgtccacca 180  
 agaagcgcaa ggagatcgtg gagcgtgctg cacagctcga cattgtggtc accaacaagc 240  
 ttgctaggct ccgcagccag gaggacgagt agtctggttt cttgtcttaa cgacgaactg 300  
 gatgttgcca ttcctt 316

<210> 27672  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-032-Q1-K1-C9  
  
 <400> 27672  
  
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 ccggtattcg ccggcgcggt agcgagagcg agagatggac tggaggatgt tcggtctcga 120  
 gacccccctg atgggtggcgc tgcagcacct tctggacgtg cccgacggcg acgccggcgc 180  
 gggctgcgac aaggcgagtg gtgccgcggc gggcgggcggg cccacgcgca cctacgtccg 240  
 cgacgcgcgc gccatggcgg ccaccccggc cgacgtcaag gagtctcccg gcgcgtacgc 300  
 gtctcgtggtg gacatgccgg ggctgggcac gggcgacatc aaggtgcang ttgaggacga 360  
 gcgggtgctg gtgatcagcg gcg 383

<210> 27673  
 <211> 302  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-032-Q1-K1-D1

<400> 27673

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gcatcttatac atgacgactg cacagcggcc cctgcagcaa acagcagttc aaggttgccg 180  
aacggctgtg attcggaagc tcaatttccc aaagagttga tatcatcctg cgttgctatg 240  
atgcttatga taaagaactg cacggagaag cagtatcacc ctgctgaagt cgcgcacatt 300  
ct 302

<210> 27674

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D10

<400> 27674

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tttgagtacc acaagaaagc aattacatct atcgagtgga gtccacatga agcatcatca 120  
ttagctgtaa catctgaaga tcatcaacta acaatctggg acctttcact ggaaagagat 180  
gcggaggagg aggctgagtt cagagcaaag atgaaggagc aggcaaacgc acctgaagat 240  
ttgccccac aacttctctt tgctcatcag ggccagagag acttgaaaga actgcactgg 300  
caccacaga taccgtcgat gatcatatca acggcaattg atggcttcaa cgtgttgatg 360  
cctagcaaca ttgatacaac cattcctggc agcactgatg cagcaatgcc atctgctgag 420  
ccacagcac 429

<210> 27675

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-032-Q1-K1-D11

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angaggagat atttgggcct gtgcagtcga tcctcaagtt caaagacctc aatgagggtta 120  
tcaagagggc aaacgcgagc cagtatggat tggccgccgg cgtgttcacc aacagcctgg 180  
acacgggtcaa caccctgacg cgcgcgctca gggccgggac cgtctgggtg aactgcttcg 240  
acgtcttcga tgctgcgatt ccgtttggcg ggtacaagat gagcggcatg gggagggaga 300  
aaggcggtga cagcctgaag aactacctgc aggtgaaagc tgctcgtcacc ccaatcaaga 360  
acgccgcgtg gttgtagacg ctgcaagtgt ggccttgtgc acgagaacca cg 412

<210> 27676

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D12

<400> 27676

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caagacggca tgaatatcgc agaggaggag atatatgagc ctgtgcagtc gttcctcatg 120  
ttcaaagacc tcaatgaggt catcaagagg gccatctcga gccagtatgg attgaccgtc 180  
ggcgtgttca ccaacagcct gtacacgggc aacaccctga ctctctcgtt cattgccggc 240  
accgtctgtc tgaactgctt atacgtcttc gatgctgcta ttccgtttgg cgggtacaag 300  
ataagcgaca tagctaggca gaaaggcatt gacagcctga agaactacc 349

<210> 27677

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D2

<400> 27677

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gggcctggtc caccttgcca ccatcccat tactggcact ggcacacacc cagctaggag 120  
ccttggcgct gccatcatct acaacaggga tcacgcctgg aacgaccatt ggatcttctg 180  
ggtcggcccc ttcatggcg ctgccctggc tgccatctac caccaggtga tcatcagagc 240  
catcccgctt aagagcaggt cttaagctgc cgtggccgtg ccgagacatg ccagtccgaa 300

gaacgggCGT cttcctgtg

319

<210> 27678

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D3

<400> 27678

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tgatttgctca agaaatccgg aaatgcatag caagcgatac ccacatgaag attatgattt 120

tgtgacaccc aggagcagta ggtacgattc gtcagcccat catccttcaa catactacga 180

agacgatcca ccagtgtctg agtcaagggg tagaagatat gctgaagaaa ggtccaccat 240

tgtaagaagc ccagaaccac gtccgcgata tgacgaaaca gacataagaa taaaccaga 300

accaagatta ccata 315

<210> 27679

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D4

<400> 27679

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tggactgtcg caacatcacc gtcaacgagg ccaggtcccg cggcgccgt ggaggctgcg 120

gctgcggcta cgggtggtggc cgtggaggcg gcggctacgg cgggtggcggg cgccgtgatg 180

gcggctgcgg ctacggcggg ggcggtgcg gctactgtgg cggcggtggc tactgtggtg 240

gttgtggcgg ctactgcggg ggcaaccgtg gctgttgcta ctgcaacttc gacgggaact 300

ggaggaactg atctgt 316

<210> 27680

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D5

<400> 27680

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cttcttcgac atgaccgtcg gcggcgcccc ggcgggcgcg atcgtgatgg agctgtacgc 120

caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg agaagggcgt 180

gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgcg tcatccccga 240

gttcatgtgc cagggcgggc acttcacccg cggcaacggc accggcgggc agtccatcta 300

cggcgagaag t 311

<210> 27681

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D6

<400> 27681

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gtgcacgtgg ccgtgccgcc gggcgtgcct gtcaccaccg aatactaccc ggaggcggtg 120

cgggtgaagt gcggcaaccg gctctacatg ccatgaccat gagcgagcaa ggaggcgggc 180

agccggtgaa gaatctctcg agagcgccgg ccgctggggc cggcgctgca ttattgcgcc 240

gggcccgggtg cctctcgccg gcgcgcgggtg tcgtcgtggt cctcgccgcg cgcattggcg 300

ggatctgcgc tctgca 316

<210> 27682

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-D7

<400> 27682

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atggcgcccg tggatcatgat gagcatgtgc gtcgtcgtgt cgctggtggc ggtgcagctg 120

caggccacga gcagcgacgg cgccacggtc acaccgtccg tgggtgctgcc gccgatgacg 180

gtgccccgtg tgcgcgggtc gttggaggcc ggtcgtaagc tgcaggccgt cgacgccgtc 240

gggatgggca tggactccgt ggtgcgtcgg acggtggtgc tcaccacgat gcagacgagc 300  
aactc 305

<210> 27683  
<211> 242  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-032-Q1-K1-D8  
  
<400> 27683

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atggtaagcg tggatataag cagcatgcac gtaggcatga cgagcttgac agtgcacctg 120  
ctgctcacia acagctactg taccactgtc acatccttcg acctgatacc gaaattgaca 180  
actccacgta cgctcggtcg agagtgcacg caaactacag cacagaagaa actacgccgc 240  
ct 242

<210> 27684  
<211> 405  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-032-Q1-K1-D9  
  
<400> 27684

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tctgatgtaa atagattatt cagggtttttt ttcccccttg agcaacaccc cggaggcgct 120  
atggcagcta tttgtgcagt gatcagctaa gcacctattg ctgtattatt tgtttgttgc 180  
agcagagttg aatgtgcatt cttcgcctta tggaggagga atttatacag tgtgggggtg 240  
ccttccccctg cactttggca ggtagtgaa gtgtgcccta gaggaaagtg gcatgtttga 300  
gagcaatgag attgcagggg gctaaaatcc cctttgttat ttaaaattaa atagaagagg 360  
aatttatcct ctcgatccc ctcaattccc tgtatcccaa acaaa 405

<210> 27685  
<211> 315  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3067-032-Q1-K1-E1

<400> 27685

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tggaatgctt atgcttatga tgctcaaatt gctggtttat tctattcaat atatgttact 120  
tcagctggat tccaggtttc tttaggtggg tacaatgaca agatgagagt tctcttaaata 180  
gccatactag tgcaaattgt gaaatttgaa gtttaagccaa acagattttc tgcactgaag 240  
gaaactttctg tcaaggacta ccagaatttc aatttccgac aaccttattc tcaagcgtca 300  
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<210> 27686

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-E10

<400> 27686

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aaaaaaagaa taaaaaataa agaaataaaa aaaaaaaaaa taaaaataac aataacttaa 120  
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<210> 27687

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-032-Q1-K1-E11

<400> 27687

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tcaccctctg gaagaggact cttgttctgt gacttctctg actacaacat catcaagagc 120  
tggcagaact aagacaactg ttctgttgc cccatcattt gtgtgtgcta accgtgctga 180  
caagaggaag gagttctaca caaaattaga ggagaaacat aaagctttgg aagcagagaa 240  
ggacgaggct gaggccagga aaaaggaaga gcaagacgtt gctataaagc aactaaggaa 300  
gtcattggtg attagagcga aacccatgcc aagcttctat caagaaggcc cccacacaaa 360

ggctgaactt aagaagggtgc ctntactctg tgccaaatca ccaaagttta caagctcaag 420  
gagaaagagc 430

<210> 27688  
<211> 318  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-032-Q1-K1-C4  
  
<400> 27688

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tcagtgttct actatgagat tctgaactca cctgatcgcg cctgcagtct tgcaaagcag 180  
gcttttgacg aggccatctc ggaactggac accctgagcg aggagtccta caaggacagc 240  
actttgatca tgcagctcct tcgtgataac ttgaccctat ggacttctga catctcggag 300  
gaccctgctg aagagatt 318

<210> 27689  
<211> 307  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-032-Q1-K1-A5  
  
<400> 27689

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gggatcttgc tctgctgga aatactgttg ccagtactgc tggtagagat gcatatgtat 120  
gggatatcag ggctggcgag ttaacaagct tagtttccaa tgcccatggt ggtagcgcac 180  
attcaattgc ttggacacac ctgccagatg tgctgtttac cggtggagag gatggcgcta 240  
ttcgctgtt caatgtttct gatgtctctg atgatgaggg tgacattaaa ccagtggcaa 300  
cttgggt 307

<210> 27690  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A6

<400> 27690

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ctggtccatt tggtagagt aaagctctga gaacaaatcc aacagttact cctgatttat 180  
ccatcaatcc cagattggcc aacatattgg aacaggttgc tgtgaagaaa gaactgatag 240  
ttgcattggc aaattctaata gtgaaagaga tgcttgagat gtggttcact aacataaaac 300  
gagctgggat ttcaaatt 318

<210> 27691

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A7

<400> 27691

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ccatgaaacc cctcagctg ccggcagggg agggggcctc ctgggctcac gaggtcaagc 120  
aggccctccg tgagaaactc cggcgctcct acggcgccgg agctgcctcc gccacaccgg 180  
aggccaggcc ggccggcgaa ccaagccgtg gcgctgagt cgcgggctcg gcggccgagg 240  
accccataag gagagtcagt ttcttggtc cctgggggtca cacataagaa cacaaaccgg 300  
ccggccg 307

<210> 27692

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A8

<400> 27692

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cgtgccgcca agagaccgc tgctggtgta tccagcaact ccaaggaacc agctgatccg 120  
gcatctagca acgaattagg gcatcagttg acgctgtcgg gtgccggtgc cgactgcctc 180

tctcacgcaa caaagcggca taaacggagc aacagctgat ggccgctctc cctcacctcg 240  
ctccccgacc gacggatgac ggattgggtga cattcttctt ttccctccca gccaacgggg 300  
aggctcgtgg attggctg 318

<210> 27693  
<211> 295  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B11

<400> 27693

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tgctgtcgtc ctctatacga tctctacctc aagcaactgg ttccagagca tcttgtggta 180  
tccacagatc catctgctta tctgggtgctc cagatagaac aattgagtga tgacctttat 240  
cctggcttca caatctctca cctggatcat gaatagcacc attctgctac gtaca 295

<210> 27694  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B12

<400> 27694

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cccatcctcg ttctctccgt ctagcagcct ctcacctca tggccaagat caagatcggg 120  
atcaatgggt ttggcaggat cggaaggctg gtggccagag tggccctgca gagcgacgac 180  
gtcgagctcg tcgccgtgaa cgaccttctc atcagcaccg attacatgac ctacatgttc 240  
aagtatgaca ctgtgcacgg acagtggaag caccatgagg tcaagggtgaa ggactccaag 300  
acccttctct ctggtgagaa ggaggttgct gagtttggct gcaggaacct tgatgagatc 360  
ccatgggggtt cggttggcgc tgaatatgtt cgtgagtcta ctggtgtttt cactgacc 418

<210> 27695  
<211> 160

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B3

<400> 27695

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 aaaaaaaaaa aaaaaagggg attatctttt aaaaattcaa 160

<210> 27696  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B5

<400> 27696

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 ctctctcat gatgaacgtt atgtgggtct cctctccata agcggtgaga ccgagacact 180  
 agacatgatg ccatcatcaa gcactgcacc tactgctcta tgacctgcac gtggtcagaa 240  
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 caa 303

<210> 27697  
 <211> 312  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B6

<400> 27697

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 gagtccata acgtgacgac cctgttgctc ccgccgcctt cgtcggtggc tctgggaaca 180  
 gtgcaactga ctacctgccg atgcctgagc cttttgatca tgactccgcc agttgcagtc 240  
 ttaactactg taagctattg ctctgcaaga aggtttcctg tcctatttac ctgttctgcg 300

actctttacat ct

312

<210> 27698

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B7

<400> 27698

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acttcataa aactatctcc ggaattcttt ccaacagtca agatcatcct taaccctagc 120

tcctctcatg atcaacgtta tgtggctctc ctctccataa gctctgagac cgacacacta 180

accatgacaa catctgtaac cacctccacc tactgctcta tgacctccat cttctcataa 240

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caataact 308

<210> 27699

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B8

<400> 27699

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ccgagcacc cgggttcctt gcttgcccgg cgccgaatct agacagctct ttctcgttcg 180

tctgtatcca tggcgcgcgc cgcgagcaag accgtcgtg tcctcctcgc cgcgctgctc 240

ctcgcgctgg tcgcgtccgc ggtggccagc aggaagctgg aggaggacgc tttcctggga 300

agcctttcgc cggcgcc 317

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C1

<400> 27700

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gggaagtcgc gatcccttgg cagatgggta acatgacttg tgggtaaaga tgcgcaacct 120

ctgcagagtg taaaactggg atactagccg tgctcacggt catgagcagc tcggacactc 180

acatgattaa attatggaac ttaaactcaa ttgtcatat gcattgcac gcattgtgagg 240

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ataaaatttt ga 312

<210> 27701

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-032-Q1-K1-C10

<400> 27701

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cctcgactg cgagctgctg gaggcctgcg actcccacgg ttggccgtcc agccactcgc 180

agtacacgtt cttcttcgcc acatacctgt cgctcctctc cctccgccgg tcgcgcgcgc 240

gccagtgat cgccgtcgtg ccatggccgc ttgccttctt caccatgctg tccagggctt 300

acctaggtta tcataccgtc gcgcatgttt tcgcgggagc agtagtgggc ctcggtgtttg 360

gtgctatctg gtactggatt gtcaatacca tgcttggtta ttacttncca atgattgagg 420

agagtgcaaa tcg 433

<210> 27702

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-C11

<400> 27702

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aggtgcctat taaattatTTt tcctatTTTTt cttagaggat agaattacca cacctgtgcc 120  
 tattgaattc agtctggaag ttgctctggg agttctgcc aTcaggcaca tcatagaatc 180  
 agcataaata aggcacaccc tttttttggg agattctgca cttgcctgac taaatgatcc 240  
 tcacgatgga ataaaataca cagtaagtat gtttatacct tctatcaatg attttactaa 300  
 ccttaaatta ttttgattag atatccattt gggggcagca aaactcgaga caacaactac 360  
 gtagcgtgtc aagatggcca tcgggcagca cgtaagegag gatatacata 409

<210> 27703  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-032-Q1-K1-C12

<400> 27703  
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 gcagcgataa taatctatgg tgtagcact gttaaaaaaa aataaaaaaa acaaaaaatg 120  
 aaaatataga ataaaaaaa gaaagaagat atgaaagttc tgacaatcaa tgcacataat 180  
 agaatcagaa atacatgatg cacaccctga ttatgggaga ttctgcacta gtctgactaa 240  
 atgaccctga cgatggaata aaatacacat taagcatgta cataccttct atcaatgatg 300  
 atactaacct taaatgatac agaatagata tccatttgca ggcaataaaa ctcgagacaa 360  
 caactactta acatgtcaag atggacatta ggcaatacgt aaacgatgat atgata 416

<210> 27704  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-032-Q1-K1-A4

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 gaggggttag tgcattgctc agctagaaga gaacaatatg ttgagaagta aactcaaaga 180  
 cattgctgat cagtataaca ttactcagca gaaatatgct caccaattga aagagaaaat 240



gatggaactt gagcttgctg atctgagact tcaacaacat caagagaagg ctgctcacga 300  
acatacccaa atgcagttg 319

<210> 27705  
<211> 320  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-032-Q1-K1-C2  
  
<400> 27705

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ggccggtatg tggacttcag catcggagat aattcaggat accttcgctt tgaagattct 120  
aaggcagctg aaaaagcccg catgtctgca gtacttgctg atggtggctt gataattaag 180  
gaccacattg ttactttgga gcctgtgact ggtgaagctg agaaggatta ttgggacaca 240  
atccgcagta ttcaaggaaa gtacaaggat agtagaagct acaaggggaag ggcttcaaatt 300  
aaccagagag gaggaagccc 320

<210> 27706  
<211> 315  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-032-Q1-K1-C3  
  
<400> 27706

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aagagcgcca cgttctttct tctccctgtc aacattccga agcaaggag gtgatgccag 120  
gtcaggtga tcctcagaaa gacagaagac accagaggtg gagtgtataa aatatcttcc 180  
gaggttaggt atgagtatca aattttcagg gcggtacgcg gacgctgcta gcttgtgatt 240  
ataaatatat aaatatatat gttgtgtatc tatggcaatt catataagct accagttgag 300  
ccccccatgg ttact 315

<210> 27707  
<211> 359  
<212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3067-031-Q1-K1-H1  
 <400> 27707

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 cttgtggggt cacttgagga gccagcaaac caccaaccaa gggtcgaga gcaggtatct 180  
 agagcaagat gtacggctag aaggctgact ggctgtagga gccgttgacc aagtcgttat 240  
 acatcttctt atacacctgc ttctgacgt agatgcccta ccacttgagc taagactacg 300  
 cgttagagca cgccgtcgcg caaggcatgc cgtactggtc gccgttcttg tcgtcgtac 359

<210> 27708  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-031-Q1-K1-H10  
 <400> 27708

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 caagtgcggc gtcagcatcc cctacaccat cagcacctcc accgactgct ccagggtgaa 120  
 ctaaaacctt gaccacgcgc gacgacggcc gcctgatcga tcgatcgacc attccgccgt 180  
 cgccgccggc cggatcatcg atcgtcgtca tgatgatata tatcaatcta cgcgtgatga 240  
 tcgattgcta cttgtctact gctatgtact actaaataaa atctctccgt gtgtacacgt 300  
 acgcttgcat gtgcatggta gcatgtacgt acgacgtcgt ccatgtataa gtgtgtgacg 360  
 tgtgagacag agagagagag agacaggatc gatcg 395

<210> 27709  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-031-Q1-K1-H11  
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ttagcaaact tgtccctgtc tgacagaaca gcatcatcag ccttccgttt ctttgatggc 120  
 agaatgcttc tcttacaagt agagtaatct tcgatggcga tctgacgagc ctgttaatca 180  
 gcaggtttgt cgatacgagg tcaaaggcat cgcaaaaccc tctgtactgc cattgttttag 240  
 ccccccttca gacagatgcc gtcgacgaga tgatcgcttg agaacaaatt tgagattggg 300  
 atagtctgca tttttgtcgt tagcatgtgt cgctagggat tgctattgat tttcttgtaa 360  
 tagcataatc tttactgtag aataggcatc gggtgctaac caatcctatg aacatataat 420  
 taacatt 427

<210> 27710  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H12

<400> 27710

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 catccgttcg acaacaaatt ttggcacaac ttccacaggt tcagcacttg aacaatctaa 180  
 gttaccaaca caaggcattt taagttcaga gaaaagtgag aaataaacac atggccattt 240  
 ctagtccatc tttactccaa caaacctta gatgctgctc gggtagatga acactctgac 300  
 cttgcgcccc atggactcag gcgggagggt ggacttgaac ttggcacgga cgacgcccga 360  
 gtttccgtgc ggacgggtga cctttgcca aatgcaccct g 401

<210> 27711  
 <211> 172  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H2

<400> 27711

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 tacatgcatt gtgtcatatc ctgcaaaggg tgtttacga gccctcgccc attcagacta 120  
 cggcctgata actcttctgg caaccgatga tgcattgggt ctccatctat gc 172

<210> 27712  
 <211> 461  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-031-Q1-K1-H3  
  
 <400> 27712  
  
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 gcgtgaggcc aagaagattg acaagcacat gtatcatgac atgtacatga aggtcaaagg 120  
 taacgccttc aagaacaaga ggggtgcttat ggagagtatc cacaagtcca aggctgagaa 180  
 ggccagagag aagacacttt ctgaccagtt tgaggccaag cgcgccaaga gcaaggcgag 240  
 ccgtgagagg aagatcgcta ggagggagga gaggttggcc caggggccac gagaaataac 300  
 accacctgtc tcatccacag ctccagctac tggggcaccg aagaaagcaa agaagtgaag 360  
 tattgaaata aagctgtagc tttctagtcc agtactgcac tttcttttat aagctctagt 420  
 caaattttgg agcgctgaa ctgttttgct ggtatataac t 461

<210> 27713  
 <211> 467  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-031-Q1-K1-H4  
  
 <400> 27713  
  
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 gtcagcagca catcacacaa ggtttccatc gaaggttcaa gagcacatac cccaggtgga 120  
 gtagcaaggg aatctctccc atggagtcca caaccataaa ttgtgattat ataactagcg 180  
 tgatgtagga cacatacaat gaaggccagg atgtcacaag gctacctaac tgtatatttg 240  
 catgcagctg agtggctgac tgaggccaca agtttgatct aactttgtac ttgtacacag 300  
 ggttgaaaaa caggaagaag gtacattttg tttttgtaag tagcgtagt tggtagtgc 360  
 tgggctcaga ttggggcccc tcaagtttca ttaaagcttg ttcccgtgcc tcgtcgagt 420  
 gtaggttgca tttttttgaa gacaggactg gctgaatcat gtatatc 467

<210> 27714  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-031-Q1-K1-H6  
  
 <400> 27714  
  
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 ggaataatgt cggccgatga ggggtgccgtg atcgcggtgcc acaccaacga cgagttctac 120  
 gcccgcatgg ccaagggtcaa ggagcatggc aagctgctgg tcatcgactt catggccgcc 180  
 tgggtgcagtg tgtgccagat gatggccacg gtgtacgctg actgcgtcag caagtactct 240  
 tccgcggtct tcctcgtggc cgacgtcgac gaactgctgt aagtcgctaa gatctacggc 300  
 atccatgtga tgccgacctt ctgcttcatg atgaacggcg agacgc 346

<210> 27715  
 <211> 311  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-031-Q1-K1-H7  
  
 <400> 27715  
  
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 gcggcaggaa gggagaaaag cggaagagcg ccgtcgacgg cttacgtcca gggtcgatcc 120  
 gtcctcaata gatggcttgt gaggatcgta gaggtgtact aatgggtgtct tgaccttgac 180  
 ccactggaac ttgtgcggtc gcatggcaat ttctcgccga agtggatgaa ccaccgtaat 240  
 tccggccttt atcgtggcct gacctgtcgt cattttcact gccgtgcgag gacacgtgtc 300  
 atcttgaaat g 311

<210> 27716  
 <211> 462  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-031-Q1-K1-H8  
  
 <400> 27716  
  
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agacaggctt tgtatggata cgatcctggt ttgactgaag ctgatctgga gccaaacatt 120  
 gttattaaga gctgctgtgg tagaaggaag aaaaagaaca agagttatat ggatagtcaa 180  
 agccgtatta tgaagagAAC agaattctca gctcccatct tcaatatgga agacatcgaa 240  
 gaggggtattg aagggttatga ggatgaaagg tcagtgccta tgtcccagag gaaattggag 300  
 aaacgctttg gtcagtctcc tattttcatt gcatccacct ttatgacaca aggtggcata 360  
 ccaccttcaa caaaccacgc ttctctacta aaggaagcta tccatgtcat cagttgtgga 420  
 tatgaggaca aaactgaatg gggaaaagag attggctgga tc 462

<210> 27717  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-H9

<400> 27717

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 ccggagaaga agcagcagca gcagcaggaa gggccacacg actcgccgcc gcagcaggat 180  
 cttcttagta tctagaagcg cagttgcgag agttggtcgt actgatggta cttggtagca 240  
 tccttgctg cctgttctt tgagtgaagc gttggaacgt ggcgtgtgtg tagtgtaact 300  
 gtgtatgcag gcggtgattt atatgcatgc ttcctttaag t 341

<210> 27718  
 <211> 311  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A1

<400> 27718

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 aacagggaag ctggccggcg gcggcgggga cacggtgggtg ggccctgacg cggtggcgct 180  
 ggcgcacacg ctggtgggtg ccgtcatggt gtcagcgggg ctgcacgtct ccggcggcca 240

catcaacccg gccgtgacgc tgggcctcgc cgtcacgggc cgcatacgc tgttccgctc 300  
cgcgctctac g 311

<210> 27719  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A10

<400> 27719

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agccccctgct agaggtaagt tcctttcttt cccctgaact tcaacggcgc cgcctttgcc 180  
caactgtctg atcaaagttc attcccccggt tgggtgttggg ggtgatgatg aacatgttct 240  
cgtcgatcca ggattacgag aatttcgagg cttacatctg caaggcttac aagggcactc 300  
caccgaaggc ctgtgagggc ctggaacgtc tgcagatggc cctcgagaca gcggcggatg 360  
cgcgcaacgg cgtcagctac aactccggtg tcagcaagct tgcgactgct gaagatgatg 420  
gtggggagca 430

<210> 27720  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A11

<400> 27720

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actccggggc cagctgccga cgtcgccacg cgcattccgc cgcgccaatc gggtagacga 120  
gcagggcggg ggatgacgtc gtcggcgctc gcgccggcgt ccaatggacc gcgctacgcg 180  
ccgccggatc caacgctgcc caagccgtgg agggggctca tcgacggcaa cacggggtag 240  
ctctacttct ggaaccctga gaccaaggtt acgcagtacg agcgccccgt cgcggccgtg 300  
cccaactccc cgtcgcagcc gcctggctac tccaggcccg aggagaggcc gagaagcagc 360  
acaccttccg agcggagctc ggaaaccacg gtga 394

<210> 27721  
 <211> 380  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A12

<400> 27721

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 ccaatgcgta cgatgacagg tctacgacgc gaacctgcgc ccaacggacc ccgctccggc 180  
 caaccgtacc aacctgccc aagccgcca ggcagctcat ccgccggaa aaatgtgcaa 240  
 ccactacttc tgaaaccccg agaacaatgt tacgcatcac cgaccacgac ctcgaggtcc 300  
 ttcccaactg cgagaccaag ccccatgcca acttcacgcc cgacgagagg ccagaagca 360  
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<210> 27722  
 <211> 311  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A3

<400> 27722

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 ggctcttaca aggtcaagtt tggcgttctc ttcaacgacg atcgggtgtgc aaatatcttt 180  
 gaagcactag ttggcacctt gagggccgcc aagaagagga agatcttgac ctacgaaggc 240  
 gagctgcttc tgcaagggtg ccatgacaac gtggagataa ccctgttgcc cccacctgca 300  
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<210> 27723  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations



<223> Clone ID: LIB3067-031-Q1-K1-G9

<400> 27723

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cgtgacgatc agccccgggc cgtaagccca ccgatcaac agcaggccgc agattcccct 120  
gtttccagaa ctccgtcgaa tcctccccct cctccacgca gacgcagctc cctctcctct 180  
cagccccac ccacgagacc gctagcgccg gcgccccggc gcggtatgga ggctgggtggc 240  
gaggagtctg cgatcggcgt ggtgctctcc gcgaagacca ccctgnggga ggagtctgag 300  
ggccagatcg tcgccttcga tcgacccttc aacctnctcg ttatccagga gggcgtgggg 360  
agggcggaga gcggagagcg gcggaacgtg aagggtgctga aggcgaacta ca 412

<210> 27724

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F12

<400> 27724

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ttcttcgaca tgaccgtcgg cggcgccccg gcgggcccga tcgtgatgga gctgtacgcc 120  
aacgaggtgc ccaagaccgc ggagaacttc cgcgcgctgt gcacggggca gaagggcgctg 180  
ggcaagtccg ggaagccgct ccactacaag ggctccacct tccaccgct catccccgag 240  
ttcatgtgcc agggcgggca cttcaccgc ggcaacggca ccggcgggca gtccatctac 300  
ggcgagaagt tccccgacga gaagtctctg cgcaagcaca ccgaccccg tgtgctctgc 360  
atggccaacg ccggggccaa caccaacggc ttccagttct tcatct 406

<210> 27725

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F2

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cttgggttag tggctcttct tttcggagac ctgtgaggag agccattatc atggccgctg 120  
 ttgagactgt tgttctcaag ggtgctatgt catgccaggg ctgctccggg gctgtcagaa 180  
 aaatgctctc gaaaaatgaa ggggttgaaa ctttcgacat atacctcaat gagcagaaaag 240  
 tgacagtcaa aagcaatggt aagcctgtag acgtctttca gaccggtttc aaatttgggt 300  
 aaaagacctt c 311

<210> 27726

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F4

<400> 27726

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 ataagatcaa gattgttgag ttcattctctg ttctactatc aattggtagt gcagctgcca 180  
 aaacacgact gattcaacta ggagcaatca agcatgctat agatctatctt tttgagtacc 240  
 cgtttaacaa cttcttgac caccgtgcga gaatatcatc ggctcatgtt tggagagtaa 300  
 gcaggatcga ctgattgacc atgtccttga tgattgtaaa cttgttataa gaattctgga 360  
 agcagagaag aactctgctc tgctctcaga tttaacgaag catacattgt cttcagaggg 420  
 aagattttca ccatggatag gaattgttgg tcatatgaca cagat 465

<210> 27727

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F5

<400> 27727

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 acaggccggg gccgagatgc gcctgcgcca gagtgcgcct cgccgggggt gtacccgtgc 180  
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acgagtgtat ggtgaagacg atggagatct caccttgtat ttcactctgg aatcctacat 300  
gaacactcga tgtacagcag cagcagcgtc ccgatgccga gcgtcatgac cgtcgaggag 360  
aaccgacagc gcgccatcga cggtaacacc aaccgctcgg tggagagaga ctctgtctga 420  
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<210> 27728  
<211> 455  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-031-Q1-K1-F6  
<400> 27728

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caatacctgc tgcagtcacc ctctgtaccg tgagtctgag cttatccagg agaactacct 120  
tggtgtgaga aatgcagcac agaggaagct actggatgag ctgggcatcc cagcagaaga 180  
tgccccagtt gaccaattca cccctctggg ccgaatgctt tacaaggcac catctgatgg 240  
gaaatggggg gagcatgagc tcgactacct gctgttcacg gtccgggacg tgaagggtgca 300  
gccgaaccca gatgaagtcg ctgatgtgaa gtacgtgaac ccgaggagagc tcaaggagct 360  
catccggaag gctgacgctg gcgaagatgg ngtgaagatc tccnctgggt tcatgctgggt 420  
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tggttccgcy ctttattcct tcacccttcc ggggtctcacg ctacagctaca ccgccggcga 180  
gaagctcagg gcgtacatgg tctcggtgcc ctatccggtg gcgtccttga gcttcggctg 240

tgagacggtc atcagccgca agaatcgggc gccggtggtg gcgggattct cgtcgcgtgg 300  
 cccaatcct gccgcacccg agctcctcaa gcccgatgtc gtcgcgccgg gagtgaacat 360  
 tcttgccggc tggtcaggcg acgcaccact agcggnggtc ttcgttcccg atgggaggag 420  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F9

<400> 27730

cctgaaccaa aaccagagcc taagccagag cataaacctg agccaaagcc agaggctaaa 60  
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 cctaaacccg aaccgaaacc ggagccaaag ccagagcccc aacctaagcc agagcctaag 180  
 cctgagccat agccagaacg aaagccagag ccacaaccaa agcctgagcc taaaccagaa 240  
 ccaaaaccag agccaaagcc agagcctaag cccgaaccaa aaccagagcc aaagcctgag 300  
 cctaaacccg aaccaatgtc agaacctaaa ccagagccaa aagctgagcc gaaaccgaaa 360  
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<210> 27731  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G1

<400> 27731

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 caatttaacg cccaaccaac ccacaacca ggcccagaac acagtctcta gcccaatcta 180  
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<210> 27732

<211> 317  
 <212> DNA  
 <213> Zea mays  
  
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 ggatcaacag caagccgcag attcccctgg ttgcagaact ccgtcgaatc ctgcgagtcc 180  
 tacacgcaga cgcagctgca tcttctctta gtcactactc atcgagccga tagcaccggc 240  
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 gaagaccatc ctgggggg 317

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 <211> 378  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-031-Q1-K1-G11  
  
 <400> 27733  
  
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 cagcagctgg tcgcggcgcc ggtcctggca gcggcgctgc tgctgctggc ggccgggggccc 180  
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 ggggtacgca tgggcagcgc ggcgtcgccc tccgcggggg gctgcagcgg ggtgcgctcg 300  
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 atgacggggc ggctcggc 378

<210> 27734  
 <211> 359  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-031-Q1-K1-G12  
  
 <400> 27734

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ccatcctcgt ttctccggc tagcagcctc tcacctcat ggccaagatc aagatcgga 120  
tcaatgggtt tggcaggatc ggaaggctgg tggccagggt ggccctgcag agcgacgacg 180  
tcgagctcgt cgccgtgaac gaccccttca tgagcaccga ttacatgacc tacatgttca 240  
agtatgacac tgtgcacgga cagtggaagc accatgaggt caaggtgaaa gactccaaga 300  
cccttctctt tggtgagaag gacgttgctg tgtttggtg caggaaccct gatgagatc 359

<210> 27735  
<211> 464  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-031-Q1-K1-G2

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cctccccgcg gataagttcc tgcgggagac ggtcgagcag agcgatgacg gattggtgag 180  
cttgcccttg atatgctcct tctcgcgat gaagtccac ctggggctgg acgcagatgt 240  
caagcccagag actgtgccg aggagaccgt gcttgcggtt gctgaggtgc tccggccttc 300  
tcttgccctc cgcgtatcg aagatggaaa gaagattggt agagctagtg aactcttgaa 360  
gccagatgag atcatagaac aagtagactc taggactatt gctgtatctc cgtgccttg 420  
caatgtaaag caggaagacg tncaatcttt tttcaciaat tatg 464

<210> 27736  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G6

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aaaaaaaaa aaaaaaaaga ataaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaata 120  
aaaaaaaaa aaataactga acaagacatt acaatcaaaa aatatgaaca atattgtggg 180

aatgcacttg atatgcttct tcttacagat gaaaaaccac ctggggctgg acgcagatgt 240  
 caatccacga actgt 255

<210> 27737  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G7

<400> 27737

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 ctgtgggctg ccactatata ttatagttgc ttgggatgtg ttttttataa aaaaaaaaaa 180  
 aaagggcggg c 191

<210> 27738  
 <211> 304  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-G8

<400> 27738

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 tccattgtag tctgggatct ctgttcttcc ctccatgcc tgttttagt aggcattcatt 180  
 ctttgctcgt atatttggct gtagcattcc ttgtttgttg atcaatacac ctgttcagct 240  
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 attc 304

<210> 27739  
 <211> 458  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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ggtggaagtg tggcttcaga caataagtcc aggtcaaagg acgccaatcc acaggcattc 180

ctgtgaagaa gttttcactg tcctcaaagg gaagggtacg ctcttgatgg gatcaagctc 240

actaaagtac ccagggcagc cacaggaaat tcctttcttt cagaatacca cattttcaat 300

ccctgtaaat gatccacacc aggtttggaa ttctgacgag cacgaagatt tgcaagttct 360

tgtgatcata tcgagaccgg ctgctaagat attnttatat gatgattgga gcatgcctta 420

tacaagcgtg ggactggaat tccccctcgt ctgggatg 458

<210> 27740

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D2

<400> 27740

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tctcctggcc ttcccgcgcg ggcgcgcgct ctcttttcg aattccgact cccgcctccc 120

cggggtgctg gtttcgcgat ccggctcgtc cggcgatcct cgcgaggcct cctcgacccc 180

gaccccgacc cggcgcggcc accggttcaa gacattcaca aaaaaacatg ggcatgatg 240

aagctgtagg tactcagaat t 261

<210> 27741

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D3

<400> 27741

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aagaaaaata taaaaaaaaa aaaaaaaaaa aaaaaaaaca aatttatata attatatattt 120

actatctctt aaatactatt atatacactt ttcttttata tataactaatt ttaattaact 180



tttatttttt tttaaatttt tttatttttt ataaattttt ttatacccaa ttactactc 240  
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 t 301

<210> 27742  
 <211> 205  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-031-Q1-K1-D4  
 <400> 27742

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 gaaattgtat aaataaataa atttaataat caattttatt tttaaattatt atatcttttt 120  
 ttctttcttt ttaactatat ttttttctct tattcttttt tttttttttt tcttttttct 180  
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<210> 27743  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 27743

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 atcaacgtgc cgattccagt cccctgccc ttcttctcct tcacgggcag caaagcttca 180  
 ttgcaggag atttgaattt ctacggcaag gctggcgtgc agttcttcac ccagatcaag 240  
 acgatcacgc agcagtggaa ggagtcgccg gtgcagcggg tctcgctctc catgccacc 300  
 tcgcagaagt gagacgtcaa ggacgctcac gccactctcc aaagcttcac tcctttccac 360  
 tcctctggac atagaccac gcatgggcca cangagaagg ataattggta ggcattggca 420  
 cactccatgc atggccatga tactagtgtg tgctcg 456

<210> 27744  
 <211> 460

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D7

<400> 27744

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cggctgtcta tttagtggcc caatatgcac ggaggagat caaaaggatg gaaggggaag   180
cagaagagaa aaggaaaaaa gacgaggaac ttgagaaaca aaaacaggtc gaggaagaat   240
ctgccaagga ggatgctgat tcaaagcttt cgaaggattt agacaggcta gatacactag   300
agggtgtcgt taaggagatt gtggatgaca aaaggaaact ttcttcccct gatttaccga   360
ccaaagagga ggttgcaaag aaaaatgaag catctccggc taaggcttct gattccagaa   420
gctatggtca gccagtgggt gctgccaata gtaaggacac                        460
  
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<210> 27745  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D8

<400> 27745

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gtcgtcggcg ccgttcgtgg gactgcactg cttacatctg cctgcgtcga ctgcgtacga   180
ctacatcgaa catatacacg agatgtctct tgtgaataga gccactgatg ccttgagcat   240
cggtcactcc gcaggttcca tctaagagag aaggcaaaca actgtggaaa attgaccgca   300
aagcacataa ggaggatgga taggaaggaa atggcatggt tcaaagtatt ctgccaagga   360
agaggcatac ctgtgctgac ctccgagctg ttcacacgga ctccaaaagc cgatcaatct   420
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<210> 27746  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-031-Q1-K1-D9

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tgacgctggg tagctccggc gccggatcga gcgtcgtcgt tccccgaaac ttcaggctat 180  
tagaggagct cgagcgtgga gagaaggga ttggtgatgg aacagtgagc tatggaatgg 240  
atgatgccga tgacatctac atgcggtcat ggactggtac catcattggc cctcacaata 300  
ctgtacatga gggtcgcac taccagctga agtngtttgt gacacggact attcggagaa 360  
gccaccatct gtcagattcc actcaaatat caacatgaca tgc 403

<210> 27747  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E10

<400> 27747

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acgcctacaa catgcgcaac acgatcaagg acgagaagat cgcgtccaag ctggctgccg 180  
acgacaagaa gaagatcgag gacgccatcg acgcggccat cagctggctg gacgcccaacc 240  
agctcgccga ggcggacgag ttcgatgaca agatgaagga gctggagagc ctttgcaacc 300  
ccatcatcgc caagatgtac cagggcgcggt gtgccgacat gggaagctcc ggcgcatgg 360  
acgaggacgc tccggctgga agcgggtggac ctggcccca gatcgatgaa gtggactaaa 420  
cggtttgggt cagtctcgtg tgtct 445

<210> 27748  
<211> 138  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E11

<400> 27748

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ctgatcatag cttaaatt 138

<210> 27749

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-031-Q1-K1-E12

<400> 27749

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cccggccgtg caagatgtca ccagcgtcga cgaggccgag aggataactca ccggggatga 120  
caaagccgtc cttgccttcc tcgacactct aaccggtact cacagtgcgc agcttgctgc 180  
tgcttcaagg ctggaagata gcatcaactt ttatcaaact tcgattcctg atgttgctaa 240  
gcttttccat atcgaccag cagcaaagcg tccatccatt gtactgctga agaaagagga 300  
ggagaagttg accttctatg atggaaagt taaagcatca gccattgctg aatttgctgc 360  
tgctaacaag cttgctttga ttaccacact aactcaagaa actttcnctt ctatttatgg 420  
caatgcaatc aagaagcaga ttactattt gctg 454

<210> 27750

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E2

<400> 27750

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acgttgatct cccgtgggac gctccagatt aggaaatagt gtaccattc gtggagctcc 120  
cgggaaccgt ctgatggcgg ttgatcagat aggattagat gttgggtact gtttcatctg 180  
atgggattgt gaccgtggat ccacgggcgg acgggcccga tgcgatctgg ttgtaattaa 240  
agccgaacaa tagatcctta atcctgtggt cgtcattgtg c 281

<210> 27751  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E3

<400> 27751

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tggtcccacg ccccttctc cgctcctac cgcggttca aggccgacgc ttgcgtcgcc 360
gtcgcggggc gccggacccg ctgcggcgcc accgtcggca ccgagggcac cggcgcccc 420
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<210> 27752  
 <211> 209  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E4

<400> 27752

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gagcttgaag aaaaatggcg ggcttagtct tgcactacaa gaagacagag tgaaagaaaa 180
ggggaggcac ttcttaagg accaatttt 209
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<210> 27753  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E5

<400> 27753

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 atcatggccg ctgttgagac tgttgtcttc aaggttgcta tgtcatgcga gggctgcgcc 180  
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 aaggagcaga aggtgacagt caaaggcaat gtcaagcctg aggacgtctt ccagacggtt 300  
 tccaagtcgg ggaagaggac ctctactgg gagggggaag ccacagcccc ggacgtgcg 360  
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<210> 27754

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E7

<400> 27754

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 tgagaacttc tcaaagtggc tcggcgtgac tcagtgcgag gcaagggtag ttaagttctg 180  
 agtagctcag cttatgttga gaggaagag aatccatcaa tctgttttat cctgcatcat 240  
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<210> 27755

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F1

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 ccgcgcgccc tttgggcttg gtcggccggc cggccacgcc ttgttccgcg gcgcgccata 180  
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<210> 27756  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ctcaagaagc acatggactc ctccacggac ttcaagaacc accgcatagt caaatccttc 240  
 ctctaccaga ttctgcgggg catcgcttac tgccactcgc accgcgtgct ccaccgcgac 300  
 ctgaagccgc agaacctgct gattgaccgn cgcaacaacc tcttgaagct cgcggacttt 360  
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<210> 27757  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-031-Q1-K1-B7  
  
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 aggtggtgga gaccatatac cccgacgtgc ttattgtcca ctgacggcaa gtcaagaccg 180  
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<210> 27758  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-031-Q1-K1-B8  
  
 <400> 27758

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 ctgctgatcc gcaagctgcc gttccagcgc ctggtgcggg agatcgcgca ggacttcaag 300  
 accgacctac gttccagag ctccgctgtc tccgcgctgc angaggcggc tgaggcctac 360  
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 atgccaagg ac 432

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 <213> Zea mays  
  
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 <400> 27759

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 gtccgcctaa ttcaggagat gtgatgtgta gcaaatagcg cgcgcgcacc agtcgtcaat 180  
 aaataaataa atgaataaat aaataaataa ataaaggcca acgtacgacg acaaattagt 240  
 ggcgcgcgcg gtagtagcta gcagagtatg cgccgtcact gtgtcgatct gcagtttggt 300  
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<210> 27760  
 <211> 77  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-031-Q1-K1-C1  
  
 <400> 27760

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<210> 27761  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C10

<400> 27761

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gtgagggcgg cggaggtaga ggcaaaggga tgacgcgcgg gaagcagaag atcgacgcgc 180  
agcggcgtaa cgcggagcga aaccagaaat ccaaggggtc tcagctcgag gcccgcgccg 240  
tcggcctcaa gatcgtctgc tccatctgca aggtacaatt ggcaaataaa aaacagctga 300  
ccgatcacta tggatcaaag catccaaagg agaaacctcc gagcacatcg agcaccgaat 360  
aaccatggct ggtcgtgacg cagaaatata gatccttggc tggtttgagg atctttaagt 420  
gcgtctgacg catgccttgg acctcaacgt caagtatata ctctct 466

<210> 27762  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C11

<400> 27762

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catgttatcg attaagtcca catgctatac atcgagtgtc tctccttgct gaaccgcgcg 180  
ttgtaaaacg acatggcgcc gatcttagca atcgcaacga accgagggat cacgtctatc 240  
cgcgggacaa actaccgctc gccgcatggg atcccgccag acttccttga ccggctactg 300  
attatcacga cgcataattta cacggaggat gagatccgga agatcctgga tatccggtgc 360  
gacgaggatg acgtgga 377

<210> 27763  
<211> 400

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C12

<400> 27763

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ctgttcacgc atgaagtcca catgctagac atcgagtgcg tctccttcct gaaccgcgcg   180
ttggaaaacg acatggcgcc gatcttagta atcgcaacga accgagggat cacgtctatc  240
cgcgggacaa actaccgctc gccgcatggg atcccgccag acttccttga ccggtctactg  300
attatcacga cgcattccta cacggaggat gagatccgga agatcctgga tatccggtgc   360
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<210> 27764  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C2

<400> 27764

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ctgggtggact cgggagttaa atccatactg ttcattcttac aacaccacc ggaagccctg  180
agcgaaataa t                                                         191
  
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<210> 27765  
 <211> 403  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C3

<400> 27765

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gtcctggcag cggcgctgct gctgctggcg gcgaggcccg ggacggcgctc ggcggcggtg  180
  
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agctgcggcg aggtgacgtc gtcggtggcg cctgcctcgg ggtacgcgat gggcagcgcg 240  
gcgtcgccct ccgcggcggtg ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgtcg 300  
gcggcggacc ggcaggccac ctgcaactgc ctcaagagca tgacggggccg gctcggcggc 360  
ggcgtcagca tggccaacgc cggcaacatc cccggcaagt gcg 403

<210> 27766  
<211> 283  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C5

<400> 27766

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gatgttgagt accgctgctt cgtctgcggt ctgctctggg ccacggacga ccactccctt 180  
cacaacggct tcagcaccta cggcgaggtc ctagagtcca agattatcct cgatcggtag 240  
acgcataggg tcctcggatt cagcttcgtc accttcttca ctg 283

<210> 27767  
<211> 439  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 27767

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tcaacacctt ctactccaac aaggagatct tcctcaggga gctcatctnc aactcctncg 180  
atgccttgga caagatcaag tttgagagtt tgacggacaa gaccaagctg gatgcacagc 240  
cagagctgtt catccacatt gtccccgaca aggccaacaa cacgctgaca atcatcgaca 300  
gcggcattgg tatgaccaag tcagaccttg tgaacaacct tggtagcatt gcgcggtcag 360  
gcacgaagga attcatggag gcacttgctg ctggtgctga tgtgtccatg attggccagt 420

tnggtgtcgg tttctactc

439

<210> 27768

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-031-Q1-K1-C7

<400> 27768

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ggcaaaacaa ggaggaggga tctgaagggtg attcagaaga tgacttgccc cctctcgaga 120

agaatatgaa ccacctgaac ctgaagaag acgaagaaag cgaggaagag agtgaaagcg 180

agtaaaattg tgggtctgaaa gtgctgccat ggtaactnta cgactgtttt acaagtgaat 240

ttcagttgcc ttgcctgcta cgaagcaacc gttgtatgtg cttcagtgtc taatagccag 300

aataagcttc aatggccttt tcgtccagat gttgaatgca tgggttcggaa aagaaattct 360

tgtacgccct gtaatagtgt gtacctatag cactagcttt gaagattaat gatgagttga 420

acacattgag atcatttttc tttctaggag aatacaca 458

<210> 27769

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C8

<400> 27769

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ggtgccagag acttgtgttc taaacacaac gttttgatga ttgctgatga gatccaaact 120

ggcatagcta gaactggtaa aatgctggca tgtgactggg aaaacatacg gcctgacatg 180

gtgattctag gcaaagcact cgggtgctgga gttgttccag tcagtgcagt tcttgacagac 240

aagggtgtca tgctgtgtat cagaccaagg gaacatggaa gtacattcgg tgggaatccg 300

ttagctagcg ctgtggcagt tgcactactg aaagtgggtca gagacgaagg tctttgtgaa 360

agggctgcaa agttaggaca ggagtttagg gaccagttac agaagggtcca gcagatattc 420

cctcaaatcc taagagaagt gctgcggaag ggttt 455

<210> 27770  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-C9

<400> 27770

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gacttgctcg agaacttgga gattttttgc ttgtggggat tcacacagat cagaccataa 180  
gtgcaacacg aggacggcat cgcccaatca tgaatctcca tgagcgaagt ttgagtgttt 240  
tggcttgctc ttatgttgat gaggtgatca ttggtgctcc atgggatggt tcaaaagaca 300  
tgattaccac gttcaatata tcttttagtc ttcatggaac aattgctgag aacatggact 360  
tcacaaaaga cgatttacac ccatatgctt gttcaatggc tatgggca 408

<210> 27771  
<211> 281  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D1

<400> 27771

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tactcgcccc cgctctacag acaattacc tctgatcct ctcaagaagac gccgaaaccg 180  
cgtaatctac tgaaagctac tacaatttga ctctcaaagt gctgccatcg ccactttaca 240  
actatcttcc cagogaattc tacctcccct gcctgctaca a 281

<210> 27772  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D10

<400> 27772

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agccgggaat ggagaagtat gcacgggtgc caccagcctg ggcatacaga cctggagtggt 180  
gcatgctgtc ctgctcctcg tgaaccccat gatgcaagac gtggacatta caaaaatgct 240  
tggttgctta tagtcttctt cctgtatagg ggtccatctt tgtgctgtaa tgtgtcaagc 300  
atcgcatgct attttttttc ccggtgatgc cagtgtgtaa gaaccatgtc gttgcaggaa 360  
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<210> 27773

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B4

<400> 27773

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cagtcccagc atacttctcc atcacaatct tattctcttc cctcgtatca ggcaacaaca 180  
gattaccctt cttctgattt tcacaaacca tcccccaatt attcaactcc cggtacaca 240  
agcacagatt tccctaccaa tgaagtccac aaaccacctt ccaattattc cccaccttct 300  
tacacaagga cagatcgccc ttccaatgac ggctacaatc cttacagcaa ttggtaacca 360  
gatgtttcgg cttaccctta agcatatcaa cccccaccct acacatttga ccctcagcac 420  
aactcttaaa actactac 438

<210> 27774

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H7

<400> 27774

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gtagcctctg tcccccttcc cagagattat ttctgcaaag cagttgtttg agaaccactg 180  
aaccgctgct cgctatccac agctagggtta cgagatccgt tgcacaactg tccatgagaa 240  
gatgatggaa atgtggaaaa gcaatttcat tgtgaaaacg gtctctagat cgaagatgga 300  
tgtgaaatat cagcatccta gcatacatct ctacatgatg gacctgaagg caccattgat 360  
ccctgagggtt gaggctgccg acaatgggaa ctacgaagaa gaggttgaag ttgctgtgaa 420  
tcaagaggaa gacgaagatc ct 442

<210> 27775

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H9

<400> 27775

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gaagataagg acttatatga gcaggggaag aaagccttgc aggagaacat acgtcaacag 180  
catgctgcca gcaccgatac tcagaaactg gtggatacca acgatcaaga tcctgaggac 240  
gacatatcag atgcattcgc caaggcccga cagttgaaga atactgagaa cagtgagaca 300  
acccccaaaa ctgaggggtgg ctcagctgaa aaggggaccg ctgtcaccgg caaaggtgat 360  
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<210> 27776

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A10

<400> 27776

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tccctatttc cctgtaccgt gtttcattgt gacttgtgac aatggatggt ttctccttgt 180  
gcgtcgccat ttacaagctt ttttgtatgt ttgtctgaat gaatgttctg gatgaacgga 240

gtttcagcgc agtaaacaat tcacataacc tagctgatgt gttttccggt ttaaaaaatg 300  
cctttttcaa aatttgggtca attagct 327

<210> 27777  
<211> 272  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A11

<400> 27777

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cgcgggcgcg gtcctggcag cggcgctgct gctgctggcg gcggggggcg ggacggcgctc 180  
ggcgggcggtg agctgcggcg aggtgacgtc gtcgggtggcg ccgtgcctcg ggtacgcgat 240  
gggcagcgcg gcgtcgccct ccgcgggcgtg ct 272

<210> 27778  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A3

<400> 27778

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cagcagctgg tcgcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc 180  
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gggtacgcga tgggcagcgc ggcgtcgccc tccgcgcggt gctgcagcgg ggtgcgctcg 300  
cttaacagcc gcgcgtcgtc ggcggcgga cggcaggcca cctgcaactg cctcaagagc 360  
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<210> 27779  
<211> 267  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3067-031-Q1-K1-A4

<400> 27779

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gtggtgtaat aatgaattct gagattgatt atttgctga tccaaatgac catgttgcct 180  
ggctgaagtt ggagctattc ctactcataa aggatagaag atcagctggt cttatatctg 240  
atgaactata aacactactt attgaaa 267

<210> 27780

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A5

<400> 27780

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cggcggcggc ggcgggcggtg gcgcgcgcctc aggcaccgcg ggcccgcgcc agcctgacag 180  
ttaaccacc tgaacgtgca caacacggaa tgaaacaggc gtctgaaact ttgactgtcg 240  
atttggaag gacagcctct gctctcagtg gcaaccctat taagggccat aacttaaaag 300  
cgggtgttgg atcagtgcta gctactgaaa tctgtggagc a 341

<210> 27781

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A6

<400> 27781

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aggctgtgag aactcgaatg ccaatttcag agcaccggaa gttcgacagc gattggaaac 180  
ccacgcctct ttagtagctg agggtttatt ttgtgtttcc tatgtttaat gtgcgtatac 240

acatatagtt gatatatattca tctatgcata attattacc

279

<210> 27782

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A7

<400> 27782

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ttgtgggctt ttccctgttg gagcaccatc aacaagcaca acaactactg gcctgaaatg 180  
gaatctaagt gaatcaaaga tgagatttgg gagcatgata agcacatcca acattgtgca 240  
gtcggagaaa gtaactgtag aatctgatgc agatctcttg tggacaattt ctctgcgaaa 300  
tctgacataa gcagttccta gtttgttatc tttttcttct tctttctctgt caagtggcaa 360  
ccaagctctt gtacagccac ttttgtgttt atgagttgtg tgtctggtaa ataaatacca 420  
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<210> 27783

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-031-Q1-K1-A8

<400> 27783

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gaagattgag aagcgacagc aggaccgtgc actcgacact catattgaag agcaatttgg 180  
cagtgggaga ttgttggcct gcatttctgc ccgtcctggg cagtgtggcc gagctgatgg 240  
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caagggtgtt gcattcttaga gcattctttt agctagaact gcaaaatata ttctacttgg 360  
gggattttgt tgtagtctt tatgcatatc atttgcggac ctgatgaaca cttcataagt 420

gaatcaactc tcgattctaa gaattgataa ttttcacatg cgg 463

<210> 27784  
<211> 78  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-A9

<400> 27784

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agatcatctg taagaatt 78

<210> 27785  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B1

<400> 27785

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aaccccgta acgtgggcat ccacgagctc ttcaagtggc ccatcttctt gaccgcgctc 240

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gcgggtctact acttgctcct tga 323

<210> 27786  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B10

<400> 27786

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cgtccgtggc gggcggcgac atgagcgcgg acaagacgga gtgcgcggac cagctggtgg 180

gcctggcgcc gtgcctgcag tacgtgcagg ggcaggcccg cgcgccgccc cccgactgct 240  
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 acaaggacga cccaacctg ggcatcaaga tcaacgccac cctcgcgctc gcgtcccca 360  
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<210> 27787  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-031-Q1-K1-B11  
 <400> 27787

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 ctctgtctct caacaatggc cgctcgtctc tctctccagc agctggtcgc ggcgggcggtc 180  
 ctggcagcgg cgctgctgct gctggcgggc ggggcccggg cggcgtcggc ggcggtgagc 240  
 tgccggcgagg tgacgtcgtc ggtggcgccc tgccctcgggt acgcgatggg cagcgcggcg 300  
 tcgccctccg cggcgtgctg cagcgggggt cgctcgtcga acagccgcgc gtcgtcggcg 360  
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<210> 27788  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-031-Q1-K1-B12  
 <400> 27788

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 acttgctgtt gcagctacgt cagcaatgga ttgtacatta tgtaaagaaa atcatttgag 180  
 catggaggaa ctccggatga tacatgttgc aaaatggagg acactctttc aacataacag 240  
 attgcgccat tgggggtgtta ggagaagtcc taagattcag ttgtttcttg agctaaggct 300  
 acaaaagccc tctacgccta tagcttctga tagtatgtca actccaacaa aagaacagtc 360

atccctagag agcacaggaa accttgatat caccaaactt ctggatgaac tngaaatacc 420  
atctcgggttc tagaatagca catcgtcttc a 451

<210> 27789  
<211> 185  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B2

<400> 27789

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gcgacaagta ctgcatttag aacgcgctgg agtttgctga cggctagatc aaagaggcag 180  
atgtt 185

<210> 27790  
<211> 311  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-B3

<400> 27790

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tgctgttgt ttctcttttc aataatcaag atgagccgtg gtggtagtgc ccgtgggtgt 120  
caaagtcttc tgggttatct ctttgaagc cgtgagcccc ccaaaccaac agtggcacca 180  
gcttcaagtg cttcacctgt tgagaaacca tttgcttcaa agactgattc cggccaacaa 240  
gttgcttctt gggttaccag gccaaccaat tacttccaca aggcttattg tcagaacact 300  
tgcaactttc t 311

<210> 27791  
<211> 290  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H6

<400> 27791

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gaaaaaata ataaaaataaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa 120  
aaaattaaaa gtttatatgg acgtgcattt tgagctatct aagattgaaa tcagttcctt 180  
aaaagctata actgtattat tagatgactt aattcaattt gaatgttcgt cttttcaaaa 240  
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<210> 27792

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G12

<400> 27792

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tcattttctt ctgggctatg cacaagaccg acttcttctc ggacaaattc ggtgtgaggt 180  
cgatcagggg cagcgagcat gagatgatgt ccgcgctgta cctccaagtg agtatcgtga 240  
gccaggctct gatcttcgct acccgggtccc ggagctggtc ctctgtggag cgccctggcc 300  
tgctcctggg caccgggtat ctgcttcgcc agcttgctgc gaccttctc gctgtcta 358

<210> 27793

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G2

<400> 27793

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acgaacacgc gtacgaccac gcgtgcacga tgatcctgta tctgttataa atatcattat 120  
tattaaaaaa ataaaaaaac atgaaaataa aattacataa aaaaaattgg acaaa 175

<210> 27794

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G3

<400> 27794

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ttcaccatcg caaacaagac cttcacccta acacccgagc agtacattgt gaagctggag 180  
caaggaggcc aaaccgtctg catcagtggg ttcattggcg atgacgtgcc accgccgcgt 240  
ggtcctctct ggattcttgg ggacgtcttc atgggagctt accacacggt gttcgacttc 300  
ggcaacgaca ggattggctt cgcggaatct gcatgagtgt ggagagcact ctcatcttta 360  
taaagacgat accctatgta ttagggatgt gtaagttatt gtctatccac tacatgccaa 420  
cagtacgct 429

<210> 27795

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G4

<400> 27795

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cggcggggac ccagtcgaga acacgaaggc gatggcgaca gcgctgaacc gcgggctccg 120  
ctccgggctc cgctctctcg ccgccggcgc cgaggcgctc aagccagctt ctctgtggatt 180  
ccatgccacc gtcgtgaaga gaatgggagg gcatggccat gatgagccat actacatcca 240  
tgccaagcac atgtataact tgcacaggat gaagcatcag ggtttgaagg tgacactctc 300  
cgtgctggga gcggttggca tcggcgttgg agtccctgtg tatgcagtca tattccagca 360  
gaagaagact gcctctggct gagatgatgc ctc 393

<210> 27796

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G5

<400> 27796

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 tcggagaggg cataaggctg ggtgaggtgt gtccttcgat aggcaaaaat aatcacgtgc 180  
 cttgtttatt attgttcttt tctgttcgtt ttttcatttg cttctgcaag ttctagctct 240  
 agatcatacc tgtaaaatat gcagaggtct tttgcggtg atattcttat atcgtttttg 300  
 ttagtcgcgc tgtactgtac cgtgtgatga ttatggagct gctttgtaag ccgtttttaa 360  
 cctg 364

<210> 27797  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-G6  
 <400> 27797

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 ggcgtaaaag cggatcctca aggagctcaa ggacctgcag aaggatcctc ccacctcttg 180  
 cagcgcaggc cctgttgccg aagatatgtt ctactggcag gcgacgatta tggggccatc 240  
 agatagccca tacgctgggtg gcgtattttt ggtcactatt cactttccac cggactaccc 300  
 attcaaacca ccgaagggtg cattcaagac gaaggtttac caccgaata tcaacagcaa 360  
 cgggagcatc tgtcttgata tcttgaagga gcaatggagc cctgcactga ca 412

<210> 27798  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-G7  
 <400> 27798

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 aggacaccaa cgatcgatcat cgtctgggtc attctgctgg cttcaatctt ctcgctcctt 120  
 cgggttcgga ttgatccttt ccttgcgaag gatgatggtc cgcttcttga ggagtgtggg 180



ttggattgca actaggatgt cagtgcacat gctccccgaa tcgtgcatat gcttgaagta 240  
ctatttttcag gtgtttgtac ccatattcag tgtctgtcga taagagacat gaaatgtgcc 300  
acgtctctat tgatccatgg tgaacctact taatatctga gagacatact gggggataat 360  
ggcggctgcc gcaatccttg tgcagttggg cctggaata cagcatatgc aagtgcttga 420  
ctgtgcagca ttcattatta 440

<210> 27799

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G8

<400> 27799

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tgtgtgtgag gcacaggagg atacagagga ccagccttca gagaaggatg cacctgttgc 120  
atgggaagag gatgagaata atgtagggtg gatgcctgct gttagccgca gcacacacag 180  
aagatatttg cggaggaagg caaggcgtga tgccctcaaa gaatctggac aaagttttga 240  
gacgagttct gttgctgcat caattgatag cgataaagtt ctctctgaaa atggagggtt 300  
ggagcatggt ctgacttcaa cagggtgcct ctctctgtgc cctgagaaaa tcagtgcgaag 360  
ttctgatggt cttgaacttc aagcagatgc tgaccctgaa attgctggag aacagttgca 420  
ttctgacc 428

<210> 27800

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-G9

<400> 27800

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tgctggtgga tttgcgtccg ggccccgaac cgatcgagtc ttttgcgatg gcagcagcgg 120  
ctagtctcca aggggcccgg cgatcagctg ggagacttcg tcaggccgcg tcactggccg 180  
gcaaggccag cactaccgga ggagggccgt gcacgcctcg tcgtacgaca cgaaccgga 240

ggagcaggtg cgccccggcgt tcgtgccgga cgatgtgatc agcagtgcag ggagccccga 300  
 caagtactgg agccccacagc ccaagaccgg cgtgttctgg ccggcgggtg tggacaccaa 360  
 ccagctgggc g 371

<210> 27801  
 <211> 386  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-030-Q1-K1-H10  
 <400> 27801

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 ggaaaatgaa aatgtatctt ctctcaactc cagcagttta caggcgggaa aaaagagaaa 180  
 gaaaagaaga ggcaggaaaa agcacaatcg tcgcaagaaa gctaatttac aggattctcc 240  
 agcatcaact gctgctgata attctgggtt ggtgacgttt tctgagaact gtacttcac 300  
 ccttaaaacta gaggaacaga tgaagaagca agatcaggac aagacatcca tgactaactt 360  
 actttttaatc aacaatgcaa agagat 386

<210> 27802  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-H11  
 <400> 27802

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 aggctgctgc tggcggcgct gtgcgtggtg gcggcggcgc tgctcgccgt gcggtcggag 180  
 tcccacggcc tggaggactt cgcaagcagc gacgcgacgc cggagatgca gaccttcttc 240  
 aagccccagg ccgcggcgct cccggaggcc ctggacgcgt cctccatgcc cgccgccacc 300  
 atggccgcga agccggaggc cacgtcgatc ccgaccacca ccaccggcac cacgccggcg 360

gctgcagctg gcacctccgc cgcggcaggc actact 396

<210> 27803  
<211> 378  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-030-Q1-K1-H12  
  
<400> 27803

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ctcgccgagg cggacgagtt cgatgacaag atgaaggagc tggagagcct ttgcaacccc 120  
atcatcgcca agatgtacca gggcgcgggg gccgacatgg gaggtccgg cggcatggac 180  
gaggacgctc cggctggaag cgggtggcct ggccccaaga tcgaggaggt ggactaagcg 240  
gtttgtgtca gtctcgtgtg tctgctgcag tggctggctg gcccgatcgc tgctcgattt 300  
atcgctcgtc tcgcggtgta tccgcgttag aaccctttgg tggatgaaca tattatcggg 360  
gcacgcgttt taagtata 378

<210> 27804  
<211> 366  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-030-Q1-K1-H2  
  
<400> 27804

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cgaagcgcca ccggaagggtg ctccgcgata acatccatgg gatcacgaag ccggcgatcc 180  
ggcggctggc gcgcaagggc ggcgtgaagc gcatctccgg gctcatctac gaggagagcc 240  
gcggcgctct caagatcttc ctggagaacg tgatccgcga cgcgctcact tacaccgagc 300  
acgctcgccg caccaccgtc acagccatgg acgtcgtcta cgcgctcaag cgccatggcc 360  
gtaccc 366

<210> 27805  
<211> 411  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H3

<400> 27805

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ttcatggaga aatcaacccc gacagtgaag cttgagattc agctttacaa aacgagggat 180  
gagaagtacc ttcttgacct gcaaagggtc agtggatcac atcttctatt tctggactcg 240  
tgttccgcct ttctaactca tctgaaagtt ctttgagcct gacatgattg gcttcccaag 300  
cactccttga tgcacccagt ggagtttcaa gttacatttg agatgcacat aatgaccata 360  
tataatcctc caatagatta tattttctgg agcatgtaat gtagacgtta g 411

<210> 27806

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H4

<400> 27806

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cgagatcaac ctgttcgtgc tcatgcaccc cgctggcaag tactagcagc acacaccttg 180  
atactcgagc gagtggctac taccgcattg tagatggaca aagtcttgct gaagtgacta 240  
tgtgcaatcc aactctttca gatgtattac tcttggtgaa acccaatgaa catgcaattt 300  
atctgtcctc tgagcacaaa tgtaagccat tagcttggcc ttacccgctc ataaagacca 360  
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<210> 27807

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H5

<400> 27807

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 cttcgtgggtt tatatgcacg tgcaaaggag ctctctgaga atgaaatcag tgcttcaaat 180  
 gctttgattg gattattaga tggtttggtt caatctggag cttcaactgc aaaaaagaaa 240  
 aagatagaag ttggtgagca gaaaaagaag aggatcaagt ctgatacaga ttctgcacga 300  
 ttttctgctg catctatgag gaatcaactt gaccaagctg caagccttaa aggagagcag 360  
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 catttcgata aggaaa 436

<210> 27808  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-G11  
 <400> 27808

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 tcctaggggg aagaaacagg aggggggaaaa agaagcccag aaagaccaac tgaccaaaca 180  
 aaaaggtggc atctttgtgt ca'c'gaggca cgc'cgatca cagaccaaag tccgctcctc 240  
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<210> 27809  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-E3  
 <400> 27809

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 gaggtggtgg aaagtcacct tattggcttg tgcaaggagg tccttgaagt atacttgttc 300  
 acagcatgac cttctcagcc ttacagtggc acacagccgc ttgcccattg gcttatccct 360  
 gttggttcat caatgcgaag ggaacttgcg gcaagatcac etc 403

<210> 27810

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E4

<400> 27810

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 tacatcacgg gtggatctgt cctgcattct gtacttgctc tgaaggggtg ttactagtct 180  
 aaacctgatg aactagcagt cagataaact gacgtgtcgg ctgctaaatg tgcaggcctg 240  
 atgttgaact ggcacggaga tgattacagc ttatcagctc tgcacctgtg cccaatggca 300  
 ggggctgcct ttcaagctat cgtctgatct ggaactgttc cacattatct aatccctgtt 360  
 ggttcat 367

<210> 27811

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E5

<400> 27811

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 gcgccgtcgt cctcgcgtc gccaccccg cctcgcggc tgaccccgac atgctgcagg 180  
 acgtctgccc ggctgactac gcctcccg tgaagctgaa cgggttcgcg tgcaaggcga 240

acttttcggc ggacgacttc ttcttcgacg ggctgaggaa cccgggcaac accaacaacc 300  
 cggcgggctc cgtggtgacg ggggccaacg tggagaagtt cccgggctg aacacgctgg 360  
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<210> 27812  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-030-Q1-K1-E6  
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 cggcgggctc cgaggtgact gcggccaacg tggagaagtt cccgggctg aacacactga 360  
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<210> 27813  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-E7  
 <400> 27813

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 catgtctgaa ttcaggcagg agtaccaggc gcagcacctt agcaacaaga gcgttgcggc 180  
 cgtgagcaag gcagcaagtg aaaagtggcg ctatatgtca gagcaagaga agcaacccta 240  
 tgtggacca gctgggcaga agaagcagga ctatgagaag accaaggcaa atattgagaa 300  
 ggagagcaca agctcaaaga aggctaacac tgatgacgac gatggctcga agtccgacgt 360

tgatgatgag gatggcggta gtgacgagga aaacgacgac gacgagtaaa tagtatctcc 420  
gctgtcccga ggtaacaaat c 441

<210> 27814  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E8

<400> 27814

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attgcttctc gtttgtttagc taggaagctg aagggtgaag gttatatgca aatcgtgttt 180  
tcagtatcag cctttactct tttcctcccc gttgtcacca atttcctagt acctccctcc 240  
ggggagaaaag gcggcagcat ttcgtagga ggctgcttac agcttcttgg cttctgtacc 300  
tttgagtcac gtgttggcat attctggcca tcaatcatga agatgagatc tcaatatatt 360  
cccaggagg caacacgcac aatcatgaat ttcttgcgta taccgctcaa cctgtttgtt 420  
tgcttggtac tatac 435

<210> 27815  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F1

<400> 27815

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gttcttgcac cagaggtaga gatccttggc aaaagtttat ctgagggttc agagaagaat 180  
tctatcttgg atacctcatt atgtgatatg aaaactgagt tagatgaatt gagaacaaag 240  
ctgaacgatt ctgaagaatc ctgccagact caccttacaataaattcagc tctttctgct 300  
gaaaagaaca atctgttctc tcagctggag agcattacat tggccatgaa agcactagaa 360  
ggtatgcaca ccaatctgga acagatgcac tcctctgtat caagagagaa ggatttttgc 420



tatgatcaag taagggaact g

441

<210> 27816

<211> 294

<212> DNA

<213> Zea mays

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<400> 27816

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gacgaagggg aatgcgcgcc taccgccgga agtgaaccgg gtgctctacg tgcggaacct 180  
gtcgtctaac atttcgtgcg acgagatgta ctacattttc ggcaagcaca gtgcgatcca 240  
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<210> 27817

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F2

<400> 27817

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cagcctgctg atggagctca tcacgacgag gtcggctgcc ttgcgctcta gtcctcgtc 180  
gtcgcctgctg tcgctggcca gcgaaagcga cgacgcgaag aacggcagtg aggacgggac 240  
caggtacatc gtcacgtatt ctgcaaccgg cggccttggc acgggcaccg tctgtaggct 300  
tgagacagca tgcttgctgc tgacactact atgctcttac ttggcattgc aggtgacatt 360  
gacaacactt ggcttgagat ggc 383

<210> 27818

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F5

<400> 27818

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cgacctctc aggatcaacg tcgaccgcgg cgtgatgata ggcgacggta agtcccgctt 180  
caccatcagc gggcagccca tcttcactt cgtcgggacg tccaccttca gcgagtacac 240  
cgtcatccat gtcggctgcc tggccaagat caaccccgag gcgcctctcg acaaagtctg 300  
catcctcagc tgtggtatct cgaccggcct tggcgcgaca ctgaatgtgg cgaaaccagc 360  
caagggtctg acggtggcga ttttcgggct tggggctgta ggccttgctg ctatggaagg 420  
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<210> 27819

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F6

<400> 27819

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cggcgcccaa gctcagcgag acggcgacga agccgtcagc cgccaagagc ggcggcgcta 180  
agaaggctga gcagaagccc cgggaaacca aaaggaaggt gaagagcagc aaacaggcgg 240  
cggcgcccaa aaagtgcgt acagtacgtg tggagtgtaa tggagcttcc atgcatgagt 300  
gaatccatgc catgttatga atctagtcct tcctttcttg tatcttccat gtgacgcggc 360  
gtgtgcgttc cctcatgtgt gatgatgcca gatgaatact acaaataaga cgttgttgtg 420  
ac 422

<210> 27820

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F7

<400> 27820

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 gcgacatcaa gttgtttctg gtgcagcgtc acggctcgcg ggcggacatt cggccctatg 180  
 gacccatcga gcgaccgagc ttgccctctg accgcgaccc caggtcagtc gggactaccc 240  
 gctgagtcta agcatataaa taagcggagg agaagaaact tacgaggatt cccctagtaa 300  
 cggcgagcga accgggagca gccagctcg agaatcgggc gtactcgtcg tccgaattgt 360  
 agtctggaga ggcgtcctca gcgacggacc gggcccaagt tctctggata gggacgcctg 420  
 tgatggtgag agccccgt 438

<210> 27821  
 <211> 121  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-G1  
 <400> 27821

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 t 121

<210> 27822  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-G10  
 <400> 27822

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 tcgacaggcg gtctggcaag gagcttgaga aggagccaaa gttcctgaag aacggtgatg 180  
 ctggtatggt gaagatgata ccgaccaagc ccatggtggt ggagacgttc tcagcgtatc 240  
 ctcccccttg taggtttgct gtccgtgaca tgaggcagac ggttgctggt ggagttatca 300  
 agagtgtgga gaagaaggac ccgaccggcg ccaaggtgac caaggcggct gccagaaga 360

aatgatgcga tcctgcgcct gctttagcaa tacctagggtt tcatcatcac aaagttttgt 420  
t 421

<210> 27823  
<211> 396  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-030-Q1-K1-E2  
  
<400> 27823

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gcacatgctc acaaaataaa cagtgatagt gatttgcggtt ccaagttgca agagttgggc 120  
tcgatgacac agatgcagga cccgccattg ttacgccttg agaatgagtc gtaccagctg 180  
tgccctcagta tccttcagaa catatttctg gacagctctc ctgatcatgg aagcacagag 240  
gtggtggaga gtcaccttat tggcttgtgc aaggagggtcc ttgaggtata cttgagcaca 300  
gcaagacctt ctcagccttc cagtggcaca cagccgctag gccattggct tatccctgtt 360  
ggttcatcga agcgaatgga acttgccgga agagca 396

<210> 27824  
<211> 266  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-030-Q1-K1-C6  
  
<400> 27824

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gcgctgtgtc tgtcgtgaca cctggatcgt gagatggggt gtcaaacttg attgctttgt 120  
tgagcttggc tggaacaact gatagttata tatttggatc gtactgtccc tgttgatatg 180  
atctaaattc tgaacgcgtt gcaatctgag catccgtgca aagtatgaat gttccttcta 240  
tgaatacacg agttcatgtc cgacgg 266

<210> 27825  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-030-Q1-K1-C8

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cgaccccaac cgatgagcac cccaagatct accgcatgaa gctctggggc accaacgagg 180  
ttcgcgccaa gtccaagttc tggtaacttc tgagaaagct caagaagggtg aagaagagca 240  
atggccagat gcttgccatc aacgagatct ttgagcgcaa cccgaccacc atcaagaact 300  
atggcatctg gctgcgctac cagagcagga ctgggttacca caacatgtac aaggagtacc 360  
gcgacaccac cctgaacggc gcagtggagc agatgtacaa cgagatggcc tnccgccacc 420  
gcgtgaggtc cccctgcata ca 442

<210> 27826  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C9

<400> 27826

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gacggtaccg agatcgtgct ctggaagtgg tgcgagggcg acaaccagcg ctggaagatc 120  
ctcccttggg gaacgaacga aagaaactac tagctggtac cctaataata attctgctgg 180  
ctgcggcgat cccaaaataa aagaggccgg gtgcgatgca tctcggactt ctcgagtggg 240  
gtttgcgtca gacagccagc cactgtgggg ctagtgttcc aacatttgtc agcctgcttg 300  
cgcgaggaag gggggtcact gactcaagag aagggcctgg tcataggctg ctgcattatg 360  
aatttctgat gatgtcttat gtctgtactc tg 392

<210> 27827  
<211> 472  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-030-Q1-K1-D11

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aatggtaatg aatttctttg ttctgaatac gcctaagatg gtcttgcatt accaaatcaa 180  
actctgcaat catctcaaca caggctaaga aatttccatt actatcaacta taaagctgct 240  
caatgcttcc tctaaaagcc aagttgcgtt taccaagaaa tttcacaatt gctattattc 300  
ttagcaaaac ttgtctcaaa cgttctttct ctttattgat ttgcttttgc aagtctttat 360  
caatagtttc ctctttctgc attcgtgtcc tcaattcatt ccacttgntc atgttctgaa 420  
aatgctcaac actattttca tggctcttag gctttgtact aatatttct cc 472

<210> 27828

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D12

<400> 27828

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gctggatccg acggtggtgc gtgtgggtac cagggtgccg tcgaccagcc tacgatctgg 180  
tcaatgatca ccggcggcag ccaatccatc ttccaggacg gcaagggctg cggcacctgc 240  
taccaggatga agtgcaccgg acacgcgtcg tgctccggca atccggtgac agtgggtcatc 300  
accgacctgt gccccggcgt tggatgccag gtggagcccg tgcactatga cctgagctgt 360  
ac 362

<210> 27829

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D2

<400> 27829

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gggtgactga tatttcatag agctcagaac tattcgtgaa aatggacatc gaatttgtag 120  
gaactgacga tgtacatatt aattctcagg cacacgtggt ttagtgacga tgaccaccct 180  
ggttagacta atctgcgtaa tacaaaaacg gagtcggtct atgtaattaa aggctctagt 240  
gcttgatgat caacataatt atttgaacta atatatttct ctagtgtgta tgtttatagt 300  
gtaaaggatg cggcgtggat ttggacgaaa gcaaattgggt gagcatgaag attaacacct 360  
caaagaaata cattagaaaa cttattgaag atctgtcaag atcatgcagg agtataaaac 420  
atgagacaat agaag 435

<210> 27830

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D3

<400> 27830

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ggttggccag catcaaaatg taattccatt gcgggcttac tattactcca aggatgagaa 180  
gttgttggtg tttgattatg tcccatctgg tagccttgct gctgttttgc atgggaataa 240  
agctgctgga agagctccat tgaactggga gacaagagtc aagatatctc tggacgtggc 300  
ccatggaatc gcccaccttc atgccgaggg aggaaggaag ttcattccacg gcaacatcaa 360  
agcatcgaac gtctctctat cgcagaacct cgacggctgc gtctccgagt tcggcctggc 420  
acagatcatg accacccac agac 444

<210> 27831

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D4

<400> 27831

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gtaagcttca atcaggatca gcacaatcca gggccataaa gttcctaagc ccccaacagt 120

gaactattgc aggacgtttc tgttttgaaa tttggttggt ggttgaacta tgtctaattg 180  
 ttttatcaat aatttggtgc tagttgttta caagtatgac ttagtaggtc caagtttatt 240  
 gatTTTTgtt actggtagct ccaagttttg ttgaacattg ttgcttcttg caagacgtat 300  
 tgtgatct 308

<210> 27832  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-D5  
 <400> 27832

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 gtgctggcac attcctttac cagaaaactt ggaatgcaaa actttggaag gttggattag 180  
 aacttcacat tcatctcgtc ctggagtctt tgaagggtgaa agcagcactt tctggagtga 240  
 cttcttggct cttgttaagc ttaggggcat agacgtggag gctaaggacc ataccgtttc 300  
 tattccttgg tgccctttaa ggtctcatga ggttccactc tctaacgggc tctgcaagaa 360  
 aaactcaact aatggcatgg tttctgctgt tacctcgatg ctcttatcac tcggagagga 420  
 cccctcagg aaagagcttt 440

<210> 27833  
 <211> 286  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-D6  
 <400> 27833

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 tcatccgtca ttaactatga gtgctgggat ttgtttgtat gtgtgtcgtg ctaccagttt 180  
 cttctcctgt cgtctcacac aggtactgta ttaacgatgt gttttctagt gtccgtgcgg 240  
 aagctgtatt ataagctgaa atatgtgcgt ttgaaattta ctagtt 286



<210> 27834  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D7

<400> 27834

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atcctaccat aatgtttgga ggaattgagg gctctcaagt ctgcactgtg gcctttcagc  180
gggtgtgact gaaagctgag gcacacatag ttcttggcct gacgtgtcac gttgggtcca  240
gaagaaatgg ataaaaaatt ttgtgcttcg cctgtgggac tgttcctacc gtattaagga  300
acagtccaaa ctgtgtcttc ttctgttgtt agctcatcta tccaggatgg tcgtgtaatt  360
ttagatggac cagactatga gacgaatcag tcctgtattg ttgtcacctg gaacatttcc  420
ttgtatttcc gttcctctta                                     440
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<210> 27835  
 <211> 313  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D8

<400> 27835

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tctctttctt cgccttcgcc gacgcatgcg gctgcagggt cggcggatcc tgccttagtc  180
caggcggcgg tggcgggtggc ggtggaggat ctggtgggtg tgggtgggtga agcgggtggg  240
gtgggagtgg aggggggtgga tcgggtggtg ggagtggagg cggaggatct ggtggaggcg  300
gaagtagagg tgg                                             313
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<210> 27836  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E1

<400> 27836

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gctcgtagca ggcagactga aactagctga tgctttacaa aattacaatt tgtatttccc 180  
aacgtttttg gactttaggg gacgaaatta ccgatatggg ctttttcatt accacgaacg 240  
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taaaggtagt cagggcatat gaacctttat ggcttcaaca gctttccatt attccaaata 360  
ttggaagaat tataatgaag gtataatatg ggttattaaa aatatacatg agtgcctga 420  
cttaaatagt aataa 435

<210> 27837

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-030-Q1-K1-C5

<400> 27837

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ttgcgtgcta ctctcttaca tctttcatgt ctacgatatt gtagtgnatg gtctgtattg 180  
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ctggatatctc tcgattggac tgctgacaca cactattgct atcttatacc aatcatctgc 300  
aactatacca tttggcacia tggatgtcat gaatatgctc tgacctttca tgtacatcat 360  
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<210> 27838

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E10

<400> 27838

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ggagatgggtg ctaatgagaa tagctatcat ccatagatga atgttgctta taatgcaagt 180  
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<210> 27839

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E11

<400> 27839

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cccaaagtgc tcttgggagg atattggtgg gctggagaat gtcaagaggg agctccagga 180  
gactgttcaa tatcctgtgg aacatccaga gaagtctgag aagtttggca tgtctccatc 240  
caaaggagtt ctgttttatg gtctcctcctgg ttgtggtaaa accttgttgg cgaaggcaat 300  
tgccaacgag tgccaggcta acttcatcag tgtcaagggt cctgaattgc ttaccatgtg 360  
gtttggtgag agtgaaacca acgtccgcga aatttttga 399

<210> 27840

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B2

<400> 27840

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tccaagcatg gtacatggac gacagtgaag aggaccagag gcttctcat catcgcgagc 180  
ccaaagaatt catccctctc gacaaacttt ccgaactagg aatattaagc tggcgcctaa 240  
atgctgatga ttgggagaat gatgagaacc tcaagaaaat tcgtgaagcc aggggttact 300

cttacatgga catttgtgat gtgtgcccag agaagttgcc aaattacgag gctaagataa 360  
agaatttctt tgaagaacac ttgcatactg atgaagagat acgatatattgc cttgagggta 420  
gcggtacttt tgatgtgag 439

<210> 27841  
<211> 442  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-030-Q1-K1-B3  
<400> 27841

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tgcggtgtag cgccggggcc gggcagggcg ggggtcaaggc ccctgcgaag ctggcggagc 180  
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tggaggccca gacggtcccg tcgtctccag tccggagacc ggtgcagggt ggcgagataa 360  
cggaggagga actacggcag tacgacgggt ccgaccccg gaaaccgctg ctgatggcca 420  
tcaaggggca gatctatgac gt 442

<210> 27842  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-030-Q1-K1-B4  
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cattctgact tattatatga aagttgacat cactaacaac tgcctaacta gtaggctaata 240  
aacatcataa ttgcttgtaa tttgcaggaa tataaaatct cttggaatta ccatttgaag 300  
tataatatgg aaactgcttg ttttaattgt ttgtatttat gaagaccttt tgtacatagt 360

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caacagcccc aacgcccgcg gcacgctcac ctctgcggc atcgccgtcc cgagctgcta 180  
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tctaggactg atagatgttc atgtgaaaag gcaattgacc atgatgttgc atgccatttt 180  
ccttttagct aggaatttat gtgctattta gaggatgcga aaggagccgg actttgttct 240  
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aattttgttt atattttcgg gttcagatag ccttacgtgg ctacgatttt gtgagaacta 360  
tgagaaactt gggaagttct gtact 385

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B7

<400> 27845

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cctgccccct ccggctcatc tagtgccgac gcctcaccgt acccgctgat gcagctgccg 180  
tcgccgttcg cggagctcgt caagggcccc tacggcctcg agaaggctcg gcttctcggc 240  
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gacaatgggg aagacttgct tttcctcatc agcaaggcta ttttcaaacc tgcaaaagct 360  
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catggattcg ctaggaac 438

<210> 27846

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-030-Q1-K1-B8

<400> 27846

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agacgccgca ggtggtggcc gtgctggtgg tggtggcgct gctggcttcg tccgcgtcgg 180  
cggcgatcac ctgcgggcag gtggggctcg cgctggcgcc gtgcatecct tacgcgacgg 240  
ggagggccag cgcgctcccc tcgtcgtgct gcagcggcgt caagagcctc aacagcgcgg 300  
cgcggaaccag cgcggaaccg caggcggcgt gccgctgcct caagagcctc gccaacagcg 360  
tcaagagcgt caacatgggc accgtcgcca ccatccccgg caagtgcggc gtctnecgtc 420  
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<210> 27847

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B9

<400> 27847

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gattctatctt atattgaacc aactatagct tccttctaga tttcaggaaa ccattatctt 180  
gtgccaaaca atacttgact ttatatagga tagaattggt gtttatgatg atacttaggt 240  
aactgctgta cttgggtattc agtgtgtaat atttttgttg tgtggattaa tgttttaagt 300  
gctttatgtc tcattagtgt taagcttagc tcctcctgct tcgtcgtagt agttatttaa 360  
caataaggat ctctttaaa 379

<210> 27848

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C1

<400> 27848

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cgccaatggt gtcgcacctg gctacaccaa gggatgatggc cttggcgctg agattgttgg 180  
caccttcata ctagtctaca ccgtcttctc ggccaccgat gccaaagagga atgccaggga 240  
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tgccaccatc cccattactg gcactggcat caaccagct aggagccttg gcgctgccat 360  
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tggcgc 426

<210> 27849

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C10

<400> 27849

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 aaaaaaaaaa aaaaaaaaaa acataaaaaa aaaaaaaaga attaaaaaat aataaaaaaa 180  
 aaataataaa taataaaaat atatcacact aaattaattt cattaacctt cgtattacaa 240  
 ttttaacatat tggaaaaa 258

<210> 27850  
 <211> 388  
 <212> DNA  
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 <223> Clone ID: LIB3067-030-Q1-K1-C11

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 tgaacggaat tactgcagag ggccaagggtg ttaatgttga atcgtcagca gttgcttcag 180  
 cccaactcc agatgagact gaagcacagg cccagttgc tgaggaggac gacgacgatg 240  
 atgttgacct ttttggtgag gagaccgaat atgagaagaa cgctgctgaa gagcgtgctg 300  
 caactgcaa agcttttggc atgaagatag aatcttgga gtcacagtt ttacttgatg 360  
 tgaagccatg ggacgatgag actgacat 388

<210> 27851  
 <211> 439  
 <212> DNA  
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 <223> Clone ID: LIB3067-030-Q1-K1-C3

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 ctgataacgc tggctattat aattcaagac cacatgaaac tggctttttt tgtgatggag 180  
 gcgactatga cagctactat ggacgttttt tccttaactg gtactctgga gtccatcatg 240  
 atcatgtgga tcaggtgctg tcgcttgcta ctcttgcat tgaaggagca gaaatagttg 300



tgaaggttcc atctatctac tgggtggtaca ggactgcgag ccacgccgca gagctcacag 360  
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 agcactctgt gatccttaa 439

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 ttgatgtggt agctaatac gaagacggga aagaggaggc taataattct agcaggccga 180  
 agaaaagagc cgacgaagag aaagctgcaa gccttcagtc ctttgaaca caagctgctg 240  
 atagttctaa ccaaggaggg tttctcttgc caatcccagc agatgcctgc ctttgacatt 300  
 cgtcgtagga tggcttcata atagctacat atttgtatgt aagcgggtgt agagcgtgtt 360  
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 <223> unsure at all n locations  
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 gcacgtcgag gaccggtcga ctcgtgcata cttgcttcct cttgctagtgt gtcgtacggc 240  
 agtttgcact ttgcagatag ctagctagct agtagctagg ggatcaggca tgggtgaggg 300  
 cgaggcgggt gttaagggcg gtgtgctgta nggccgtac aagctcagtc gcgtgctggg 360

tcac

364

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<211> 447  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-029-Q1-K1-H6  
  
<400> 27854

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ctgggaacaa ggccgcgag gccgcccgc gcctccggc ggttaccgg gaagaggcac 180  
tggagctgta tgaggacatg gttcttggcc gtgtattcga ggacatgtgt gcacaaatgt 240  
actaccgtgg caagatgttt ggtttcgtcc acctttacaa tggccaggag gctgtctcca 300  
ctggcttcat caaacttctg aaccaggctg actgtgttgt tagcacatac cgtgatcatg 360  
tccatgcgct gtccaagggc gtcccggcac gttctgtcat ggctgagctc tttggcaagg 420  
ccacaggctg ctgccgtgga cagggtg 447

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<213> Zea mays  
  
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ttgcaactga ttcacgagat gaatgaacat cccgaagcac ccaagtcagc cagttgtcca 180  
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taaggcaggt gacagaaact gcggaatagt tcttgtttgc attgacgtga cagcactgta 360  
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<210> 27856  
 <211> 421  
 <212> DNA  
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<223> Clone ID: LIB3067-029-Q1-K1-H8

<400> 27856

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catgctgtca gcaccgatac tcagaaactg gtggatacca aggctcaaga tcctgtggcc  240
gacatatcag atgcatttgc caaggccgtc cagttgaaga atactgagaa cagtgggaca  300
acccccaaaa ctgaggggtgc ttcagctgaa aagggatccg ctgccaccgc caaagttgaa  360
agaagtgcaa acctgaacac aagccctgtg gaggaagca ggtgattcgt tttccttcta  420
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<400> 27857

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aaaacaaaaa gcggagaagg ccgttggttg ggctagaaac cactatctgt catcaacaac  180
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 caactgttcc accaccttta gcctcatgtg aagcgaaacy aacaaaacac aacattagag 180  
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gttttggaag gacagcctct gctctcattg gcaaccctat taaagtttat aaccgagggg 300  
 cgggtgttgg atcagttcta gctactgcaa tctgtggagc accagctgct gcagtagctc 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 cttctactcc gccgcgcgcg acccgctctt ctctcgccac cacggcaaca tcgaccgctt 360  
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 <223> Clone ID: LIB3067-030-Q1-K1-A3  
  
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<213> Zea mays  
  
<223> Clone ID: LIB3067-030-Q1-K1-A6  
  
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<213> Zea mays  
  
<223> Clone ID: LIB3067-030-Q1-K1-A7  
  
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 <212> DNA  
 <213> Zea mays  
  
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 gtttattctt atggaggaaa gagagagAAC atcgggtctg ttctgtgggt cttaccactt 360  
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<210> 27866  
 <211> 395  
 <212> DNA  
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 <223> unsure at all n locations  
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<210> 27867

<211> 445  
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 gctcactgac aagatgagga gcagggacca caccgtttct gccactcatg gtgacatgga 180  
 ccagaacact agagacatca tcatgaggga gttccgggtct ggctcctccc gtgtggtcat 240  
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 tgatcttccc acccagccag agaactacct gcacgtatt ggtagtagtg gtcgttttgg 360  
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<210> 27868  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-030-Q1-K1-B10  
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 aatattgcaa gaccaaact agagagtatt aatggtacca tgagccaaaa tattgccgga 240  
 ggtggcattg taagtgggag tgggagtggc aatgacatgt atcagaatcg gttcctgcaa 300  
 cgagaagctg cattgaacaa attcagactg aagcggaaag atcggaactt tggtaaaaag 360  
 gttegtacc aaagc 375

<210> 27869  
 <211> 451  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3067-029-Q1-K1-H5

<400> 27869

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gcataccatt ttaagaactg ctcaaaagct taagtcattc tcgtttaaca agttctcagc 180  
aaacggctac catgatttcc tgccatcgcg gcttcgtccc aagtttcaga acattgatgc 240  
caacgagtgt actttctctg agattctttg cctaatatgt ggaagcccg ttagtgaatc 300  
agagctcctg aatttgga aaacaaaagct caaggctcag aagaaaattg atctttatac 360  
tgccattgt tgtcaaagtt gccatttcca gattctccca gcagctacag atatgtatgg 420  
acatttcttt tcgctactac cgaaattttg g 451

<210> 27870

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G2

<400> 27870

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gcggagtgtc attatacgac tgccgaggat gtatgaaaag gatgtctaaa gggctcgctca 120  
tcaaaacact gattgtgtac gcttacgacg ctcaagcaca tgagatcaca tgaacactga 180  
tacgaccttc tacatagacg ctactacga actatatgct caatatgtaa ctactgtgca 240  
taattcaacg acatttgtac attaaagagt gacaatcaca cactgatact ctcgcctcta 300  
ttgctgcagt ctggcaggaa cataaggagc ttcttaacta atatcaggct tcgcattaaa 360  
tcactctggg gacgtcgaca tctgcctgat atgcttcaca 400

<210> 27871

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G3

<400> 27871

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 gtaggaactg tgtatgctgc ttagcctctg ttgttgtaca ggcttgtcat ttgtttggtc 120  
 tgcgcttacc ggtagggcgc gccttgtccg gtgaacgatg atgggtgtatt atgagagggg 180  
 tttcttaagg ggttcacggt tgggtgtgctt ggggttgcttt gatagaaaca ttggggagag 240  
 gtttatecgc cctgctctgc tctctcatgt aactccagat tgctgagctg gcacctgctc 300  
 tgctctctca tgtaatgtaa ctccagattc ctgagctgct atgttttttt ttaaaaaaaa 360  
 aaataataaa aaaaaaacta aaaacaaaaa aaaaaacata ttac 404

<210> 27872

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-029-Q1-K1-G4

<400> 27872

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 caacgacttc agttgatgac gcccttgaga tgctggtgaa gcataggatc tctggctttc 120  
 ctgttattga tgatgactgg aatttggttg gcgttgtgtc agattatgat ttattggcac 180  
 tggatacaat atcaggagct ggaccggctg aagcagacat atttcctgag gtggatagca 240  
 cttggaagac atttcatgag atacagaagc ttttgagcaa aaccaacggg aagggttattg 300  
 ctgatgttat gaccccagcg cctctcgtgg tgcgtgaaac aactaacctt gaagatgctg 360  
 caaggttact ccttgtgact aagtaccgca ggcttncagt ggctgatagc tcaggcaaac 420  
 tggttgggat cat 433

<210> 27873

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G5

<400> 27873

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 gttcctgaaa ttatgttttg ccctaggata atcttgcagt tatggaacct tggttatattg 120

tatcctgcaa tttgtttctt gcaacttata agagtgattt tatttgatga gtcttagaaa 180  
 aaaatacatt aaaagaaaac acacataata tcaaaagcat ataaaaataa tatagactac 240  
 aattactacc actataagat cattacacaa catgtctgcc aaaatcatga cgtatatgac 300  
 aaaaaatgtg gctctcgcta ttgatcacta acta 334

<210> 27874  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-029-Q1-K1-G6  
 <400> 27874

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 gttacttttg tcttctgtgc aatgtctgct atgctcctaa gatagcatca gccgaccact 120  
 tctgtatgta tatatatgtt aaaattttat gaatataatc cagataaaga cttgctcaaa 180  
 aaaaataaaa aaaagaaaaa caaaaaaaaag caacaagaaa aagaaataat tctaagaaaa 240  
 acaatgataa aacataaaat ggctacaaaa atcactgact ccctgccaa gttacatggct 300  
 tgataacatt ttgtcaacgc gaatctgcat gaggatactt cacctagact tacctctgat 360  
 tcagcagaca aaaactggta cactctgctt gactctcttt agttcgctaa c 411

<210> 27875  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-029-Q1-K1-G7  
 <400> 27875

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 gggaaattta gtaaaaataa acaacgtatg ttgtcgttct attatatgat attatgttaa 120  
 tgtatgacat attctattta tttaaattttt ttgagtatga tctaaattaa ataattctat 180  
 gaataacatt caatatactg ataacgtgaa aagcatgaag attacgtatt tattctcata 240  
 tcatcatgta tatcttttaa atggttgcat aatttcta atctctgaaaa ttacatgtat 300  
 tctcaacatt ttcgctaacc gaatgtgcat tgtaataatt catgtagagt tacatcta 360

tcagcatata aatacgttta cacta

385

<210> 27876

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G8

<400> 27876

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ggaaagggtgg tcattggaat ggatggtgct gcttctgagt tcttcggtga gaaagacaag 120  
acttatgata ttaatttcaa ggaggagAAC aacgatggct caaacaAAAT ttcaggcgac 180  
agcctgaaag acctgtacaa gtcctttgtt tctgagtacc ctatcgagtc gatcgaagac 240  
ccatttgatc aggatgactg gagcacttat gccaaactca ctgatgagat tggacagaaa 300  
gtgcagattg taggagatga tcttctcggt accaaccCCA ccagggtcgc caaggccatc 360  
aatgagaaga cctgcaatgc tctcctcttg aagggtgaacc aaatcgggtc tgtgaccgag 420  
agtatcgaag ctgtcaggat gtccaagcgc gccggat 457

<210> 27877

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G9

<400> 27877

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tggtggatga ccctgaactt gagaagttgc acgcggagag aattgctgcc cttAagaaag 120  
aggttgagaa gcgtgaagtg ctAAAAaggc aaggtcacgg tgaatacagg gaggtaattg 180  
aaggggactt ccttggggag gttactggca gtgAAAAagt catatgtcat ttctatcacc 240  
gtgaatttta ccgttgcaag atcatggata agcatttgaa ggcccttgct cctgtctatg 300  
tggaacaaa attcatcaag cttgatgctg AAAatgctcc attctttgta gccaaactgg 360  
caatcaaaac cttgccatgt gtaatatgt tcaagaaggg tattgctgtt gaccggttag 420  
ttgggtttca agatctcgga agtaaagacg att 453

<210> 27878  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-029-Q1-K1-H1  
  
 <400> 27878

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cggacgcgtg ggtcccccatt ccaatacaca gatctcgcac ccgtaagtgg cgacgaatct   60
cgcggtgcgg aggcgcgaca gaggcggtgt cgactccgac ggactcgcag ccaccggtgg   120
agacgccccca cgggcgcact cctccaacgt tcatagttta agggcttgat ttggataatt   180
agtcatcaac agaagtgata aaaaatggtg gttcttgcag catcaatcgt ttcaaagtcg   240
ggaaaagcac ttgtttcaag acagtttgtt gacatgtctc gcataagaat tgaaggatta   300
cttgctgcgt tcccgaaact ggttggaact gggaagcagc acacttatgt cgaaactgaa   360
aatgtgcgat atgtttatca acctattgaa ggtttatatc ttctacttat cacaacaag    420
cagagcaata ttcttgaaga tctggacact t                                     451
  
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<210> 27879  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-029-Q1-K1-H10  
  
 <400> 27879

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ggcggcgccg aacctgtcgg tgggcgggta cgaggtgatc gacgcgatca aggcgcagct   120
ggagagggcg tgcccgggcg tgggtgctgtg cgccgacatc gtggcgctgg cggcgcgcgga   180
cgccgtgtcg taccagttca aggcgtcgct gtggcaggtg gagacggggc ggcgcgcagc   240
cacggtgtcg ctggcgtcca acacgggggc gctgccgtcg cccttcgcgg gcttcgcggg   300
cctgctgcag agcttctcgg accgggggct gaacctgacg gacctcgtgg cgctgtcggg   360
ggcgcacacc atcggcgtgg caagctgctc cagcgtcacc ccgcgcctgt accaggggaa   420
cgccagcagc gtggaccgcg tgctggactc                                     450
  
```

<210> 27880  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H11

<400> 27880

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ggcagctgga ggaggacgcc gacaaggatga acctgtggtt cgaggtgcct gggcagtcca 120
aggaagacct caccgtggag atcgacgaag acgtgctcgt catcaagaag aggaaggagc 180
tggtgggcca gcgagacctt ggcagtggcg tcgcagagta cggctcccag tcccagcagc 240
agagcaggag gggcaccgca gatggcaagg acccgctgcc ggcggcacag caaggccagg 300
gcggcgaggt ggtctatgcc cggatgctcc tcccggcggg gtacagcagg gatggcgtgc 360
aggccgagct caagtccggc gtgctcaagg tcaactgtcgt caaggtcacg gagcgagcgc 420
gcatgaagat cgacgtcccc attcaagtc 449
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<210> 27881  
 <211> 352  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H2

<400> 27881

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tggcgggtgca aaagggccga ccgatgtcga ggttcaatgc taccgactgc gtgcctccga 120
cggagacgct ctaccatcgc gctacttaaa cgcaaataac tgaccgtctt gatacaacta 180
attaactgtg aacacactgg atttaccaag ctgaatctcg cagcatcaaa tgcctcatta 240
gtccagatga gcacttggtc taagacgcct tgacgacatg tctttcataa gaattgaaca 300
gatcactatg ctgaatggca aaaccctttt aaactggcat aaagcacact ta 352
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<210> 27882  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H3

<400> 27882

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gcagggccgg agcccagga tcgagactga tcagcgcttc gagacgccat gatcgtagat 120  
gatgagtgtc gtatgctgaa ggatgagatc cataagctcg gccagcatta acaccgatgg 180  
ctactacaag gtcaagttcg gcgctctatt taacgacgat cgggtgtgcta atatttttga 240  
agcactagtt ggtaccttga gggccggcaa gaataggaag atcttgacct acgaaagc 298

<210> 27883

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H4

<400> 27883

gtcagacata cctcaccag gtgtggcctg gccccgtcta cttcccgac ttgctcaagg 60  
cgaacggtgt atcgtggtgg atcgatgagg tgcggagggt ccatgatctg gtcccgggtg 120  
atggcctctg gattgacatg aacgaggcct ccaacttctg cacggtcaag tgcacgattc 180  
cgaatacgca ccagtgcctt attcctgaca ccaagacacc atggctctgt tgcttggtgatt 240  
gcaagaacct taaaacaca ggggtgggatg agccgacgta caagatcaac gcttgcggtc 300  
agactgcccg tctcggttc aacaccatct gaaccagcgc tacacactac aacggcatcc 360  
tgtagtacia tgccacagct ct 382

<210> 27884

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G12

<400> 27884

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cccctctctt ttcattccct gtcccggtga cggcaatggc gggcacccgc cggtctcttc 120  
ctgccgcggc gggcgcgctg ctgctgctgc tctgcatcgc gggcgcgcg cgggcgggcca 180  
acgtgacgta cgaccacgc gcgctggtea tcgacggcgt gcggcgcgctg ctgctctccg 240

gctccatcca ctatccgcgg agcacacccg acatgtggcc ggggctgac cagaaggcca 300  
 aggacggcgg cctggacgtc atcgagacct acgtcttctg ggacatccac gagcccgtag 360  
 ggggacagta cgacttcg 378

<210> 27885  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-029-Q1-K1-F11  
 <400> 27885

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 ccatggggcgg cgggtggcgg gcgctgctgc tggatgatgt ggcgggcgtg gcgtcggcgg 120  
 ccgtgtacga ggtggggcgg accattgggt ggaccgtcat gggcaacccc gactacgccg 180  
 tctggggccag ctccaagcag atcgctcgtc gcgacactgt tgtgttcacg tataacaagc 240  
 agttccacat cgtgctggcg gtgagcaagg cggactacaa gaactgcac gtcaccaagc 300  
 cgacggacac ctgggtccac gggaacgatt ccgtcgtcct caacaccacg ggccaccact 360  
 acttcctctg cggctacccg ggccactgcg ctgccggcca gaaggtggac atccgcgtcg 420  
 cctactctgc tgcccc 436

<210> 27886  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-029-Q1-K1-F12  
 <400> 27886

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 acaataaaaa agtaatctca gcaaataata atgaataagg aggatgcaat gacgactagc 120  
 tgaacaggac taaaagccaa gcaactcatc ttgtaaacat taactaagct accccaacta 180  
 caaacatctt ccattcatag atgccgacaa gactatactt agagtattgt gtaccttgat 240  
 aataccatga gaaagggtta cattactgag ctgaagaaat tgctacgagc ttagtcatgt 300  
 gtatagatcg atgtatactc 320



<210> 27887  
<211> 348  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F2

<400> 27887

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tgatgcgatt atgactgcac tgtccctcat gaagcttata gaggccttct taaacgggtt 120  
aactgataaa tattctgggtg agtaacatgg tcttggcttt gatgctgtca agaccaccta 180  
tgctcaatgt gtcattgatt attcaattaa agatgaacta tttatgaaaa ttgagtaatc 240  
tgattggagt cttcgtctga ctgatctcaa aggcatactt gggttattga cataacggat 300  
ttgatcacta ttttgctaac caaaaatgcc agtcgctatt tgaggtcc 348

<210> 27888  
<211> 460  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F5

<400> 27888

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gtcggcatct gcggatatca actctttcgg aacatcaccg tctaccagga agtcagggtg 180  
aactatgcat gtagggctac tcgtgtgctt gagaaccata aggaggggag acgtttcacc 240  
atgcatagcc taagaagctt tgtgcacgac atgactcctg agatcatgcc tgcacttaac 300  
aagttcttta ctgaccctaa ctgaatcatg ttgattgaca tactactact actactactt 360  
gctactgtgg atgttacact ttgctgtcaa ctcaatatgt tgtggacatg catgacctat 420  
aaaagtactt tgagcgcttg gtgatgactt ggtctatgta 460

<210> 27889  
<211> 458  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-029-Q1-K1-F6

<400> 27889

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caagacatca acagcgaaga aaatgctttg gtgaatgatg tggaagagag atccaaagaa 180  
gaacattcat ctactgataa cctgaaaggc agcaagagga ggtcttcatt ctcagctaaa 240  
cctgaatatc cagaaaatgg ctccaaaaat tctccagccc tgccaagcta catggctgct 300  
acacaatctg caaaggcgaa actgcggggg aatagttcac caagacttag ctctgattca 360  
gcagagaaaa acgggttcac tcgtcgtcac tcccttcctg ccnctaacia tggtaggata 420  
atttcacatt cttcacgtac gcataggcca acccatgc 458

<210> 27890

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F7

<400> 27890

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caagacatca acagcgaaga aaatgctttg gtgaatgatg tggaagagag atccaaagaa 180  
gaacattcat ctactgataa cctgaaaggc agcaagagga ggtcttcatt ctcagctaaa 240  
cctgaatatc cagaaaatgg ctccaaaaat tctccagccc tgccaagcta catggctgct 300  
acacaatctg caaaggcgaa actgcggggg aatagttcac caagacttag ctctgattca 360  
gcagagaaaa acgggttcac tcgtcgtcac tcccttcctg cccctaacia tggtagata 420  
atttcacatt cttcacgtac gcaaaggcca acccatgctg g 461

<210> 27891

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F8

<400> 27891

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cggacatggt ggtegatgcg tcggaggagt ctgagacggc tactgcggcg tggcacaaaa 180  
tcaagagggg gtcgcttggg tctcttcgtc atagctgggg gaggtagtag gtagcttact 240  
tctttgggta cctcgccac aaatgcttgg acaggggtgc ttttctcaag cgttgacgta 300  
tcggatcatc ttgtctacaa tgtctcatta gtaaggatga aaacgatcgg taaacattaa 360  
aaccattttc gttttcatat ttttctcaa aaatgagatc gaaaacggta acttcagaaa 420  
cgaacacgac atcggttaatt cggaaacatc gaaaaca 457

<210> 27892

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F9

<400> 27892

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gctatgggga gggtatatgt gcaataattg tgcctaagga ggatgcaaag aaaaaggctg 120  
gacaggactc aaagccagcg ctaaccttgg aagcattaac aagttggctg aaagataagc 180  
ttgtccata caagattcca acaagactat acttgtggga ttctcttcct cggaatgcca 240  
tgggaaaggt taacaagaag gagctgaaga aattgttagg agcttagcca tgtgtataga 300  
tgtatttatc tcttcatttc cttcttaaag tttagcaagt cgggctcatt atattgatta 360  
gcgaataagt gctttcggtt ccatggacca ataatcttcg aaacggcccg agttatactg 420  
cgcacacatt tatttatcag aaaag 445

<210> 27893

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G1

<400> 27893

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cacatcaggt tgtcgaagat ggatacgagt ttttcgctag cgtcaactc gtaacaatat 180  
tttcagcccc taactactgt ggagaattcg acaacgctgg tgccatgatg agtgtagatg 240  
atacattgat gtgctcgttc caaatattga agcctgcaag gaagatgatg ggtggttcaa 300  
ctaataacaa atctggcttc aagtcattca ggggatgggtg acaacggcct gatgggtgggc 360  
acgctgcgtt cgacaggggg tacatcttac agcggctgca actaacaggc atatgcattt 420  
tcgcgg 426

<210> 27894

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G10

<400> 27894

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taaccactcg tcctctcagt accctgatgt taaccatgcc acagtgaaga cttccactgg 180  
ggagaagcct gttcgtgagc ttgtctctga tgacgagtgg cttaatgggtg aattcatcac 240  
aactgtccaa cagcgtgggtg ctgcaatcat taaagcgaga aagttctcca gtgctctctc 300  
ggctgctagc tctgcttgtg accacattcg tgattggggtt cttggaacac ctgagggtag 360  
atttgtttcc atgggtgtgt actctgatgg ttcatacggg gttccttctg gactcattta 420  
ttcattccca gtaacatgca gtgggtggtga 450

<210> 27895

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-G11

<400> 27895

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 aataccaggt ttctaattgt ctatgtgcag tatgagcggt cactagaaac aatcatagga 120  
 cacgagtaag caaagaacct tacaacggat tcatgaagtt tactccatat gcatttggtg 180  
 tgacattggt tcctttgttt tgcctttcat tacagtcaaa tcattctggct cggggggccta 240  
 aattaccgaa tcatgctttc ccatcagtta gtgaaggccc ttgtcgagat gcgcaattct 300  
 agagaaagat taggtgagag cttggtaacc ctgaggtttc ttttggttac ccagtagtcc 360  
 agctaccaac acttgaaaca agctcttcag atgagaagca gcagaagcaa cttttcttta 420  
 gaatctactt ggtttctaag gattgtcag 449

<210> 27896  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-029-Q1-K1-E9  
  
 <400> 27896

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 gtctcactcc atcacaaacg ctagtcttcc tctaaagaga tctttggcaa cgaccgacag 120  
 ctcgagcgga gtctcagaag cgatggcgtc aaagaggctg ctgctggcgg cgctgtgcgt 180  
 ggtggcggcg gcgctgctcg ccgtgcggtc ggagtccac ggcctggagg acttcgcaag 240  
 cagcgacgcy acgccggaga tgcagacctt cttcaagccc gaggccgcyg cgctcccgga 300  
 ggccctggac gcgtcctcca tgcccgcgc caccatggcc gcgaagccgg aggccacgtc 360  
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 aggactact gctgcgtcgc cgnccgcgc 448

<210> 27897  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-029-Q1-K1-D5  
  
 <400> 27897

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ggcgcacac acgaatgtag ccactaaca ctcacactaa cgacgtttcc agtgcataac 120  
taagacatcg tcgccaacat caacttcaac ttcacccgct acctctgcat ctagcacaac 180  
taccacattg taaagaccga cctgaccgtc aatatggata atgaaaagct ccgcgtacgc 240  
cacgaccacg acgtacgtca aagcaccata cacagcgata acgactgaca tctgggtatcg 300  
cagtacattt cacgcacacg tattctggct acatcgacga ttcataccat ctgctgctga 360  
ttgtgcgata cactgctact atgcatacat gtatcgtgct actat 405

<210> 27898

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D7

<400> 27898

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tgagaattta agttaagtga aatcgattca gggttttctt ggttttcagtt tctaaaaaaaa 180  
aaaataaata aaaaaaaaaa aaacaaaaaa aaaaagaaaa aaaaataaca agaacaaaag 240  
caaaaaaaaa aaataaaaaa aaaacgaaaa aagaaataaa aagggggggc tcttttagag 300  
gttcaaagtt tacttacgct tctatgcaat gtgaaaactt ttatatgagg taccttaaatt 360  
tcaattcatg ggccccgttt taacaagctc ggaattggga aaaccct 407

<210> 27899

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D8

<400> 27899

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ctgaacatta acagtgactg aaagcctttg gtggatgatg tggatgaaag ttccaaggaa 180  
gaacattcat atactgataa cctgataggc aataagagga ggtcttgatt ctgagataaa 240

cctgactata ctgaatatgg ctccaaaaaa tgttctgccc tggcaagcta catggctgct 300  
ccacaatctt cataggccat actgcagtgg aatagttgac acatgactta gctcttgatt 360  
agtatataaa aacggtttca ctcggttca ctccgttaag ccctctatca atggtgagat 420  
aatttcacat ta 432

<210> 27900

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D9

<400> 27900

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tggctacgcg ctgatgaaca atgaaaatga accactgtta cctgcaacag catcagcagc 180  
agcatgtgca acccaaaagg agccgtattc cccagtagaa attttgtact ggacagaggc 240  
acggttcaa aaggttcggc cctaaaaatt gctctgcaat gtcagtggtc cagcgtagat 300  
gatgatgatc gcttctaaca tagtctataa aaaatgcata ctggagattt ggtactagat 360  
aacaagagga ccttgagtac cgagtttttt ccggtgaaag attgatgggc gatgccacag 420  
cctgaagacg aagaggatgt aaagaaaa 448

<210> 27901

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E10

<400> 27901

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gggatcgcca tgtcggactc ggaggagcac cacttogaat cgaaggccga cgctggggcg 120  
tccaagacct acccgcagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag 180  
aaccgtccct gcaaggttgt ggaggtttct acctccaaga ctggtaagca tggccacgcc 240  
aaatgccact ttgtcgccat agacatattc aatgggaaaa agcttgaaga tattgttcct 300

tcatcacaca actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt 360  
tctgaggatg gatttgtgag ctttcttact tcagatggca acactaagga tgatcttaga 420  
ctcccaactg atgagactct t 441

<210> 27902  
<211> 448  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-029-Q1-K1-E11  
<400> 27902

cctgtataat ccgatcgacc ttgcgcagtt gctccgatgg gcaaggactc gaagccgaag 60  
gacgccaagg ggaagggcaa gcaggcggcc ggttcctctg gcggcgacga cggcggcggc 120  
aaggagggca agggcaaggg caagggcaag ggcggcaagt ccgctgacgg actcggcact 180  
tgcacctacg tcaaagctag gcacgtattg tgtgagaagc aggggaagat caatgaagct 240  
tataagaagt tgcaggatgg atggctgaat aatggggaca aagttcctcc tgctgagttt 300  
gctaaggtag cacaagagta ttctgaatgc ccatcaggga agaaaggtag agatcttggg 360  
tggttcccgc gtggcaagat ggctggtcct ttccaggagg ttgctttcaa cacacctgag 420  
ggaactgtta ggcaccatt caagtcca 448

<210> 27903  
<211> 450  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-029-Q1-K1-E12  
<400> 27903

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tcaatgggtg ctgctttgca acaggaaagg actgggtcca tgcagggtgc attgaatgca 120  
cagcagcagt ccagtagcaa catgatatcc aacaatgcaa tgagtacaat gcagactaat 180  
aacaatgcaa atgcgaattc attgcagcag ttaaagcagc aacgtcagga gcatcaaattg 240  
atgcaaagtc agcaaagtaa gcagcgccag cagatgatgc aacagatata acaaaagcaa 300  
acgcttcaac cgcagctccc aatacagcaa ctaaagaaac aacagcagca agggcagatg 360



cagtttccac agcttcattc tggaaatgat gtgaatgagc taaagggttaa gcaaggagct 420  
gcaatcaaat ctggaatgta tcaacagctg 450

<210> 27904  
<211> 446  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-029-Q1-K1-E2  
  
<400> 27904

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ggctcagtgg atcaatgttt catggacata aaaaaatgta taacacgtag agcacttata 120  
ctggcagagg ctgcaccag gctcaatata ggaccactca ctaatcgta ctgcactccc 180  
gatgtcatat tttgttcgtc aggtgacggg gagcaagata cgcaaaagaa tgtggcttct 240  
ctccaatgtc tcttctattt ttcgggtctt gtaacttcag gaagcagggtg gatacaacaa 300  
cagctgtatt ggacggaact gatgtgtcat gtgcctactt gtttgccata gatgagtcca 360  
taacactgca cgatttgtcc atgaattttt tcattgaatg tagttcccgt ccaaatggct 420  
ctaggaactt catatctata tcaacg 446

<210> 27905  
<211> 321  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-029-Q1-K1-E3  
  
<400> 27905

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aagagatgag aaaatcaaata gaaacgtaga cataaaaaaa atagataaac aaaaaaaaaa 120  
ctggctctcc gtttaagatg ctccaagttt caatacacgt ccattcacta atagacactt 180  
cacttaggga cgcctaattt caatccactg gccatcgttt tcaaacttcg caactgaaaa 240  
aaccttgtct tcaccaaat taatagcttt ggatcaaata cctttttgac accatgggat 300  
actaacacaa agtgccttac c 321

<210> 27906  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-029-Q1-K1-E4  
  
 <400> 27906  
  
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 ttgcttggac taggagtgct tggagggcca ctgtctcttc cttggggttt gtacgtgcta 120  
 atatgtcaga gaacacccga gaaaccatgc ttgaacgacg tgagcgatgt tggaagttgg 180  
 aggagagcgg ccttgatagc ttcagtattt cttgttgttt tgacgctcat tccgttgtgg 240  
 gatgaacttg cggaggaact aggtgtaggg cttgtttctt cgttctgaga tgcggtgctt 300  
 accgatagaa ttaggccgtg atgtagttca gttttgtgtt gaaatgtagc ttcccacggc 360  
 ggaattgttg taaaggtatg tggaatttcc ggattaggtg agcaatgata tcgcttatgc 420  
 gagtgtaatg aaattgtgcc aactgccaag tataga 456

<210> 27907  
 <211> 465  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-029-Q1-K1-E5  
  
 <400> 27907  
  
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 ggagcaccac aagaaggagg agggggagca ccacaagaag gacggcgggg agcataagga 120  
 aggcatcggtg gagaagatca aggacaagat caccggcgag cacggcgaca agtccggcga 180  
 ccacaaggaa aagaaggaca agaaaaagaa gaaggagaag aagaagcacg gcgagggcca 240  
 cgaccacgac ggcggccaca gtagcagcag cagcgacagc gactgagatc tgggtgctgca 300  
 gcacaggtgc aacacaagta tgcttgctgg atggaggatt cataccagct gatgctgatg 360  
 tagtgtttca ctggtgtcat gcatgcatgt atcgtgctat tataatcaaa aagaaaaaag 420  
 aaataacagt cagggatggg ttggttgcca tgtgatcttg tacac 465

<210> 27908  
 <211> 270

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E6

<400> 27908

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 ctcactaagc gtcaccataa cgttctactc aacatcattc acgatatcat gaatcctaata 180  
 atcattacgc ttactaatag gcatgacatg aaacacatct acaatctcat ctactatcag 240  
 acccactact tgctcaacat cttttctcaag 270

<210> 27909  
 <211> 461  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E7

<400> 27909

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 caagacatca acagcgaaga aaatgctttg gtgaatgatg tggaagagag atccaaagaa 180  
 gaacattcat ctactgataa cctgaaaggc agcaagagga ggtcttcatt ctacagctaaa 240  
 cctgaatata cagaaaatgg ctccaaaaat tctccagccc tgccaagcta catggctgct 300  
 acacaatctg caaaggcgaa actgcggggg aatagttcac caagacttag ctctgattca 360  
 gcagagaaaa acgggttcac tcgtcgtcac tcccttccgt cccctaacaa tggtaagata 420  
 atttcacatt cttcacgtac gcaaaggcca acccatgctg g 461

<210> 27910  
 <211> 460  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-E8

<400> 27910

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aggcaatggg gcactccaac gtctggaact cgcaccccaa gaactacggt cccggatccc 120  
gcgtatgccg tgtctgtgcg aacctcatg gactgatcag gaagtacggg ctgatgtgct 180  
gcaggcagtg cttccgcagc aatgccaagg acattggctt catcaagtac cgctgaaatc 240  
aggtgggaat ggaccatgtg gtagaggcga ggttgtagtt gtatttccag taatttagat 300  
gttttgttca gaagtctgct agtaaagact gctacgttta tgatggagaa cttagccatg 360  
ttggtcatgt tggcatatt gatcatgagt tacctatggt gagcttaaac tatcatgtgt 420  
ccaaccatcg ctgggtagta tgattactgg aatgtatgat 460

<210> 27911

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D4

<400> 27911

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atacatttcg ttgcgtaatc atcttatggc taccatagtc atgtgggtcca atatatactg 180  
tctcatatct atattcatgc actggcagaa ctcaatct 218

<210> 27912

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B6

<400> 27912

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ggcagaggag ctatgcgcgc ttctggtgga caccccaagc gagacgctga acctacccat 180  
ggggtgtctt ctgacgatgc tcaacgctcc agttccggac gagagcaggt cgtcgtacct 240  
gcaggacgca ctctccgtct tcaccgaaat cctttgcagc gatccgtagg cgaaggggag 300  
tgaagcctac aggcaacacg ccgaagagtt tgtacgtctc atgtttggta cttgtagaaa 360

attaggaatg tataactatg acctgatgtt gctcaggtga atttgtaatg ccgtctgaag 420  
 acatgtgtcg ggattttcgt tgtatgtgaa tgtgtgtgat 460

<210> 27913  
 <211> 220  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-029-Q1-K1-B7  
 <400> 27913

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 tctcttttcc tccccctttt acttacttcc tttttttaca tttcttcctt ctataaccct 180  
 cacattaccc aacttaatct ccttcattcc cataaaattt 220

<210> 27914  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-029-Q1-K1-B9  
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 agagtaatgt atgatgctgg acagatgcat aaggcgtgta tcatcaggga gctctgtcag 180  
 atgcgatgca aaagcgaaag aaaccagcta tttatgttca ggctccaggc agtccactt 240  
 tttcctgata ttcacaattt tagtgaggag gattgtcaag ctgaccagtg ggggaaatca 300  
 gtcgagaatt tagtagttct gcgccagatg gcctttgctt ctgtaaactg tacgtaatct 360  
 gcttccgtgc gtcttagtct ggtaataact ctggttggaac ctgttctgtt tccatgtact 420  
 tttggacagt gtgcctgact ccgc 444

<210> 27915  
 <211> 205  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C10

<400> 27915

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tttagcgatc taggaatacg gtgtaatcag tacctgcttg ttgacatatc gtatgcctat 180  
cgcttatgtt gggtagccat gatgc 205

<210> 27916

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C11

<400> 27916

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cctgggtgtga attgcagaat cccgcgaacc atcgagtttt tgaacgcaag ttgcgcccga 120  
agccttcttg cgaggggcac gtctgcctgg gcgtcacgcc aaaagacaaa caactaaaaa 180  
aaaaaaaaaa aaataaaaaa gtacataata ataagaatag aaatcaatta tcgattcata 240  
tcagggtgaac tagctgatca tgcgaataaa ggatgttcag atactgactc aggcgtatct 300  
gtatctgacc gatcagat 318

<210> 27917

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C12

<400> 27917

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gctgtcggcg gtggctcagg tccctctaca tctgcggcgt ggcactcggc gtctgacctc 120  
aacaagcaag atagcagatg gcatgcggca gggtcgcgca tgccaccctc aaggggcccga 180  
gtgtggtgaa ggagatcttc attggactga ccctgggtct gatcgcgga ggcatgtgga 240  
agatgcacca ctggaacgag cagaggaaga ctaggtcctt ctatgacatg cttgacaagg 300

gccagatcag cgttgtcgtc gaggagtaaa gagttcttcc cagatatattt caaagaactc 360  
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 ccatttgga acaccagatt atgtcgaatt t 451

<210> 27918  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-029-Q1-K1-C2  
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 cgaggagttt gtaaagagcg gaggtgctct tggaaccaca attggacca ggggattcgc 180  
 tgacgccaat atggattctg aaaacatgca gaagcagctg cagtctaaga agttcgagca 240  
 ggaagcacag aaactgtgga ttcggatgag gaatgaggtc gtacaggagc tccaggagaa 300  
 ggggtttgat atcgagtga tttgaaacct gcagtatggt cggcgctgag gatgttaaaa 360  
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 agcta 425

<210> 27919  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-029-Q1-K1-C4  
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 taatccgggg gcggcccttt tgcggtccc atgtttcctt cccctcttt gcaaccttta 180  
 cttttttctt cggggccccc taattcaatt tcttggtccc tttttttaca tctcgttctc 240  
 ggaaaaaccc ctggtttacc caatctaatt gcctttcatc catatccctt tttgcccctc 300  
 tggctttttc ccaagatgcc ccgcccacat tgccctttcca accttttgcc cgcctatatt 360

gctaactgga ccccccttt aaggggcctt ttaaccccg cttttttttg gggtcccc 419

<210> 27920

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C7

<400> 27920

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tttcttgga c aaggttctcc gtctctacaa ccttatcaac gagaaaggaa aagcttacia 180  
actactactc gctgcaacag tcaactgtttg tacatcatgt tgtctatttg gcttgccatg 240  
gattgctgct tgcaaactt gtccaactga cactagagaa gcttgtccat caatagtccg 300  
ttctggtaat ttcaagaaat tccaatgtgc aacagatgaa tacaatgatt tggctagcct 360  
attcttcaac acaaatgatg acactattag aaacctctac agtgctggca ctgatgatga 420  
attccacatt tcgtccatcc ttgtgttctt tattgcac 459

<210> 27921

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C8

<400> 27921

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agctagagaa tcggacctta tcatggctaa gtttatcgat gtatgtatga agtatgggtg 180  
tccagttcgt agtagcaact gggaactgat gtagtcctga tggatggact tggactcacc 240  
ctgatcggtc actcaggcac tctgtactgt agatgtaggc atgtagctgc tgctagtagt 300  
agtagtaatg caagtactgc tttgcatcgt atgggtgaga gagttgaaca actaatggaa 360  
tgcagatgtg ccgtattgtt ttaaaaaaat tatctattat gc 402



<210> 27922  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C9

<400> 27922

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tggatgggtg cttgactcgg cgtcaggata ttaccatgac aaatctactg gactttacta 120  
cgattcaaac tctggcttct attattctga cagtttaggc aagtgggtta cccaagaaga 180  
ggcgtacaag tccgtgcaag cttccaaatc agacgctggc caatcctcag cttcacaac 240  
aaaagctcct gctgccgcag aaacagctgt ccccgcgatt aaaggagggtg cagctccagg 300  
ccgggtgggtg acgaaaccgt tgaacccaat gagaccgatt aagggcactc ctgctccgtc 360  
tgctgttgct gttaacaaga ggaagaggga tgacggcaag cccaaggcgg tc 412

<210> 27923  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D10

<400> 27923

cccacgcgtc cgcccacgcg tccgggagga gttccccacc ctctcctatg ccgatttctg 60  
ccagcttgcc ggagttgtgg ccgtcgaggt caccggtggg cctgagatcc ccttcacacc 120  
cggcagggag gacaagcctc agccgccacc tgagggccgt cttcctgatg ccaccaaggg 180  
ttctgaccac ctgaggcaag tctttggcaa gcagatgggt ttgagtgatc aggacattgt 240  
tgccctctct ggtggccaca ccttggaag gtgccacaaa gagcggctctg gttttgaggg 300  
ggcctggact acgaaccctt tggctcttga caactcttac ttcaaggaaac ttctgagtgg 360  
cgacaaggag ggtcttcttc agctcccaag tgacaaagcc ctgctgagcg accctgtctt 420  
ccgcctctt gtggagaaat atgctgcaga t 451

<210> 27924  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D11

<400> 27924

ggatctgaag aaggaattct gctgcaatgg tactgtagtt caggaccag agctaggcca 60  
ggtcattcag ctccaagggtg atcagcgcaa gaatgttgct acttccttag ttcaggctgg 120  
gattgcgaag aaagagaaca tcaagattca cgggttctaa gggacctgta aatgcttggtg 180  
ccctatattg tgtgcctcca catattgggg agcttgaagc atcgacaagt tactagtcac 240  
tgcttactta tataagaaca taagtagtat ttgctattgt caagtgtgcc ttgcttgatg 300  
caagttgtgt tttcgtatca ttattattat gcacggccat cgtacgtgta tggcttgatg 360  
gggttattgc caacttaata aaagcacact ctgtttgcct aaaaaaaaaa aaaataaata 420  
actaaatatt aaaaaaaaaat aa 442

<210> 27925

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D12

<400> 27925

cccacgcgtc cgcccacgcg tccggggcgc caaggcggac aagaacctgc ggttcctgct 60  
gcagaagggtg ctgaagcaga ggcacgtcgg gagcctcggc cgcacgtgac tccccaaaaa 120  
ggaagcggag gttcacctgc cggagctgaa gacgagggat ggcacacctca tccccatgga 180  
ggacacgga acgtcgcgcg tgtggaacat gcggtacagg ttttgggcca acaacaagag 240  
cagaatgtat ctgctggaga acacagggga atttgttcgt tccaacgagc ttcaggaggg 300  
ggatttcata gtgatctact ccgatgtcaa gtcgggcaaa tatctgatac ggggcgtgaa 360  
ggtaaggccc ccgccggcgc aagagcaagg cagtgggtcc agcgggggag gcaagcacag 420  
gccctctgt ccagcagggtc caggagag 449

<210> 27926

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B5

<400> 27926

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gcgaacatcc aaggacagc aggtcttaca aaacgcacaa tcactccata tacatactac 120  
ccttccaagg ctacttgaac gactcaaacc tgacaatata cactcatgac tatcgacgac 180  
aactataaac agactggtac gacaaacttc cacatacatc cagactacct gatgcaccta 240  
ctcgccatca taatcaatgt tcacatgctg aacaccatca tgcccatcct ccgacgatct 300  
aactctactg acatccttac atgtg 325

<210> 27927

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D3

<400> 27927

cccacgcgtc cgcccacgcg tccgctaaag agggcagggc aggcgaatcg aaggaaaagt 60  
agtcaggaga ggcgtttccc tcgcaatcga ccatcacaga tcaaatacgt gcaactagct 120  
agggtttcgt cgctcatct ctcgtcgatc catcgatggc gtccgagggc gacaacaaga 180  
ggatgatcac gctcaggagc tccgacttag aggagttcga ggtggaggaa gcggtggcca 240  
tggagtcgca gactctccgc cacatgatcg aagacgactg cgccgacaac ggcatcccgc 300  
tccccaacgt caactccagg atcctctcta aagtcacga gtactgcaac agtcacgtcc 360  
acgccgtcgc caaaccgct gac 383

<210> 27928

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A11

<400> 27928

ctcttcttgg cctcctcgcc ctccgctccg gagggcaagt taattgttgc cagcgtcctc 60  
tgttgctcga cctcgctga gaatgggaag gaaaacaagc ccgagaaggg tatggaaaat 120  
tcgaagcccg aaaacatggt ttcaaacggg ataaccatgg cctcacctag atctcacaac 180

agcacaacac gttccccata ggaatcgaaa ttggaattgt aggccaggat gagccatgtc 240  
gcgggtacag atccacgtcg acgcggccat ggcggcgagc agggagatgg gcctcgacag 300  
tagtgggtggc atggggaggg aagaccacat ggcacatgtc gtgtgtggac acgtaggggc 360  
cgtggagcca gcggcgggcg gaccaggcag agcgcggtgc agagtgtctg cacctgcagg 420  
agatggagag gaggagcacg aga 443

<210> 27929

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A12

<400> 27929

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gcaagagaaa gaatgctcag caaactaaga ctaaaaaac aaaggatgct ggaacaaaaa 120  
ctggtgcaga ccaagcaggg aatggagatg ctgaggatga tgtgcaagat aaactcacag 180  
ggaactctgt ctcccagagg ttaccattaa tatttccaga taaagttcaa cgttcaaagg 240  
cattgattga atgtgatgg gactcgatag atttaagtgg agatattggg gcggttggga 300  
ggatagtagt ttcaaagtg cctactgcaa aacaggattt ggtgttgga ctgaaaggaa 360  
caatatacaa aacaactata gttccatcca ggacattttg tgttgtgagt gtgggacaat 420  
cagaagcaaa gatcgaagct attatgaatg 450

<210> 27930

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A2

<400> 27930

accaatttga tgaggcactc ctttgttctc atgaagggtc ttcagggtgc cacttacata 60  
ctgtggaaga atgtacccca gggagctgcg actacttgct acgtaggact gagccctcaa 120  
ctcaagggag tgacaggaaa gtactttgct gactgcaacg tggagaagac gagcaaactg 180  
gcgaggagcg aggagttggc gaagcagctc tgggacttca gcgaggagct gatcaagtct 240

gcgaagtgag agccgaaaga gctggatcag agaaaatggt gtggctcctgc ttggcatcta 300  
 gtggtacaag tgatgactga ttagtatata gcacggaaga ggaacctggg cgatggctgg 360  
 acctcatggt gttcaggaat aaaatctgct tgctttcgta cattaattag tcccgtgtgg 420  
 catacatcaa tttgtagtgc tgtcaatata tgttcaatat acg 463

<210> 27931

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A3

<400> 27931

cccacgcgta cgcccacgcg tacgcagtga tttatcatag cgaaagaaat aaaaaagcgg 60  
 cggtgtttct tgataaaaaa aaaaaaaaaa aaaaaaaaac aaaaaaaaaa aaaacaaaaa 120  
 aaaaaaaaaa aggggtcaaaa ctttacaat actaacatca acgtacacat tcaatcgact 180  
 acaaacatgt aacatagagc cacctaaaca gaatcaacta tcacatcttt taacaacata 240  
 aagactagga aaa 253

<210> 27932

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A5

<400> 27932

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 agagggcgga acgcactaag actaaaacaa caaaggatgc tgtaacaaaa actggtacat 120  
 accaagcatg gaatggagat gctgaagatg atgctcaaca taaactcaca gggaactctg 180  
 tctcccataa gttaccatta atatttccag ataaacctca acgttcaaag gcattgattc 240  
 aatgtcatgg tgactcgatc gatttaacta gagatattat tgcacttgac aagatagtag 300  
 tttcaaatag tcctactgca aaaccagatt tgttggtgga cctcatagga acaatatata 360  
 caacatctat agttcca 377

<210> 27933  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-029-Q1-K1-A6  
  
 <400> 27933  
  
 taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
 aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaagtg cctacctttt taaagatccc ctttttcctt 180  
 cctcttcttt caaattatta accttttttc agtttgccca aatatcaatt acctcaccta 240  
 tcttttaaaa ccatagcatt tgaaaaaccc ttgtttttcc caattttaat cttttttaaa 300  
 attatccctt ttttccctt tggttattac cctaaaagcc ccattattc cccctttcca 360  
 aatatttccc cctccttatt gcctattgta ccccccttt aattggctct taaacccc 418

<210> 27934  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-029-Q1-K1-A7  
  
 <400> 27934  
  
 atcgatttgg agctagggat gtaatatgat ttagaaaata tccgaaccag tattgactag 60  
 gttagagtca gtactgggtc ggatggaatc ttcggatatc cgcactcttt gcgataactg 120  
 gtacggatgc ggatattgta ttcggatatc gaattcgaat acaatatgtc tgatatctgt 180  
 cggatatcga atatccggat attttctcgg ataaatcttc tcggatatcc ggatagctgt 240  
 gtgtattttg ttgatctttt tgtagaaaga aattaataat acacaaatat tctcaaaaaa 300  
 taagaaggct aataagcaaa ctaactcaca caaattgaga tgaatctaaa ctgaacgtta 360  
 tccagtaa at aaaccttaaa cagcaaaatt aaaagggggg gccgt 405

<210> 27935  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3067-029-Q1-K1-A9

<400> 27935

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gatgtcaaga cttacgtgcc ccttggtgca aaggctatcg ccaatggcgt tgagaaactg 120  
atcgagcttg gggcaacaga cctcctggtg cctggcggtc tccaattgg ctgcttcccg 180  
ttgtacctga cgctgtacaa caccagcagc aaagcagact acaacgccc gaccgggtgc 240  
cttcggaggt acaaccgnct ggcttccac cacaacagg agctgaagca gcagcttgac 300  
gagcttcaga agaagtacc caagacgaag atcatgtatg ggagatactt caaggctgca 360  
ctgcagtttg tctcaaccc tggaaaattg gttttagca 399

<210> 27936

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B1

<400> 27936

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ccgagcaaag cgcaaagccc ccaaccgcg gatcaatccg cagcatcgat ggcgcccaag 120  
gcgagaaaa agccggcggc gaagaagccc gcgaggagg agcccgcgac cgagaaggcg 180  
gagaaggctc cggcaggga gaagccgaag gcgagaaac gcctccccgc gggcaagtcc 240  
ggtgccggcg agggcaagaa gggcaagaag aaagccaaga agagcgtgga gacctacaag 300  
atctacatct tcaagggtgt caagcaggtg cccccgaca tcggcatctc gtccaaggcc 360  
atgtccatca tgaattcctt catcaacgac atcttcgaga agc 403

<210> 27937

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B10

<400> 27937

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agaacaccct tccaccaaca gctgctctga tgtcttcaat ctatgaagag aacaaggacg 120  
 aggatggggtt cctctacatg acttacagtgt gtgagaacac cttcggactg ctctagatgg 180  
 ctcaccgcaa tcgggtcggg tagccttgcc catgcctcct gtaaataaga cctgccaagc 240  
 aactgtgtat attctggttt cgtcgttgca agtgggtgcg ctctactgct aaagcctacc 300  
 tatcagttgt ggagttgtcg tcgatgttat ggacacactt aatcaagttt attaattgac 360  
 tggacc 366

<210> 27938  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B11

<400> 27938  
 ctgctccaa acacaccacc actccacagt gcacttcact ctacagcaac gacagagaag 60  
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 cgtgctcgcc gtgctggccg cgcaggcctt ggtggccgtg gtcgagtcca ggaccggccc 180  
 cgtggagcag gcgagccaag gtgacgacgt gaagaagccg gactgcgtgc cggggataga 240  
 cccgcgctcg ttcccgggca ccggcgggcg ccacggcacc acgcccgtga cgccatcgca 300  
 cggaggctcc agctccccga cgccgtccca cggcgggcgg ggcgggtacg ttccaacgcc 360  
 gtcgcatggc gggacgctgc ctttcccgtc ccacggcggc tccggctccg gctcctctcc 420  
 gacgtcgccc 430

<210> 27939  
 <211> 451  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B12

<400> 27939  
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 cgccactgaa tggatgcttc cgtctccggc cagcaagtc cacaccatct ccgtacttcc 120  
 ctcccgtcgc gacttcgcct tctccaacct cacgatgtcg ctcaggaata gcggcgggcaa 180



cgagggagag agtggcagta ctaagttcca cgtagtacgg gacgacctcc tccacccgct 240  
cgccaacggc aacaaggcgc gcaagctcga cgccctcctg cccgtcctcc gccgctgcgg 300  
cgctactgac atcgttacgt gtgggggttg ccagagcgcc catgccgcag ctatcgcggt 360  
tcaactgtgcc gaatggggaa tcaggccaca tatactactg agaggcgagc aactggatgt 420  
tcccacaggg tataatctca tctcattgat g 451

<210> 27940

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B2

<400> 27940

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ggctggcaag aagggtgatg ccaagaccca ggccttgaag gttgcccaagg ctgtgaagtc 120  
tggggcagcc tagaagaaga ccaagacgat ccgcacgtgt gtgacatttc accgaccac 180  
gacctgaag aaggctaggg accccaagta cccacgaatc agctctaccg gaaggaacaa 240  
gcttgatcag taccatattc tcaagtaccc ccttaccaca gaatcagcga tgaataagat 300  
cgaagataac aacactgtgg tcttcattgc tgaccttaag gcagacatga agaagatcaa 360  
ggctgacgtc aagaagatgt atgacatcca tgcaaagaaa gtcaacacct tgatcaggcc 420  
tgatggga 428

<210> 27941

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B3

<400> 27941

aaaaaaaata gaaaaaaaaa aaaagaaaga atagagaaga agaaaaagac aaacaaacaa 60  
gggcgggc 68

<210> 27942

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-B4

<400> 27942

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agcatgacca agtggcagtt gtttttacag attgagcagt ccttccaggt tcatcgtagt 120  
tatggaagta tgcttgaagg cgaggctgat gaactcaaga gggttttcct tgaaggaaat 180  
ccttatcttc ttggattgac catgattggt tctctattac actctctgtt tgatttcctg 240  
gccttcaaaa atgatattca gttctggaac aagaacaagt ccatggaagg tctatcggca 300  
aaatctgtgg ttctgaattt tgtgtgtcaa ctaattgttt tctgtacct tcttgacaat 360  
gacacttcat ggatgacctt tgctagctct ggaattgggtg ttgcattga gttttggaag 420  
atcggaaagg cgatgcatat tgaagtcgat agaagtggaa aa 462

<210> 27943

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A1

<400> 27943

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gctcatcctt gcatgggtca gcaccgtggc tgggaaagcc tgggtcatcc ttgcatgggt 120  
cagcaccgtg gctgggaacc tcaccctcct aggctctgcg gcgaatctga ttgtctgcga 180  
gcaggccagg cgggcccagt tcttcggcta caacctcacc ttctggagcc acctccgatt 240  
cggggtcccg togaccatca tcgtcacggc gattggtttg ctcatcgtca tcagttactg 300  
aaacagctga aggcagaaga gcgtagtgta agagaagcag aatggataaa aatccttcca 360  
ataagaagta catgtaaatt aggcttgccc tataactcaa gtgtgtatcg gtacgttatg 420  
tctccgtctg tgctcttgct cgtgagcaag cagcacatg 459

<210> 27944

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G5

<400> 27944

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gcagaagaag cgaagtcgtc gccggagcag gaggaagagc gagcagcaag atgtcgtggc 120  
aggcgtacgt cgatgaccac ctgctgtgcg acatcgaagg ccagcacctc agcgccgccg 180  
ccatcgtcgg ccacgacggc agcgtctggg cacagtccga gaacttcccc gagttaaaagc 240  
ctgaggaggt tgctgggatg ataaaggact ttgatgaacc tggaactctt gcaccaactg 300  
gtctttttgt tggaggtacg aagtacatgg tgatccaagg tgaacctgga gttgtcatcc 360  
gaggaaagaa gggcactgga ggcattacta tcaagaaaac tggcatgtcc ttgattatcg 420  
gtatctatga tgagccaatg a 441

<210> 27945

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-G6

<400> 27945

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aacattgtca caagtaaaga ctttctaaca ccagggtgatg atgatgaggg tgtcatattc 180  
gaagaggagg atgatgatga tgagaacgat ggatacctat tcgctgggca atgcacttcc 240  
tattccaaca attgatgtca ttgaaggagc tgcccttggg ggtgggctag aactgggaga 300  
caatctaacc tcttcaaaat ccaacataaa ggttgcaaag tagacatgcc ctatttctat 360  
agttcatgct tcatggatat gatggtcaca cttcatggtc tgcggtgctg anggaacagt 420  
gatagattga tatgaggggtt gcaagtcag 449

<210> 27946

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G7

<400> 27946

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aacattgtca caagtaaaga ctttctaaca ccatgtgatg atgatgaggg tgtcatattc 180  
aaagaagatg atgatgatga tgagaactat ggatacctat tcgctgggca atgcactttc 240  
tattccaaca attgatgtca ttgaatgagc ttcccttggt ggtaatctat aactttgaga 300  
caatctaacc tcttcaaaat ccaacataaa ggtttcaaag ttaacatccc ctatttctat 360  
a 361

<210> 27947

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G8

<400> 27947

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gattgatgcg gccacgatac ccagtaaggt gaagtacacg cccccaagc agccgcacta 120  
caaccaggat aagaccccg agttcgtcat caagatcctc cagtttttgg tccccctggc 180  
aatactgggc ctggctgttg ctgtaaggat ctacaccaag tcggaatctg cctagtcatc 240  
tgaaccaagt tagcgagggt tgcattctgt ttaccagagt cgcattgtcag aaacttggag 300  
tctttgctgt catacggtta tatttatatg agacttctat cggtaaaatg aaatggatgt 360  
cag 363

<210> 27948

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G9

<400> 27948

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togataatgt tgatgaccac cctttagaaa agcaagacca ccaggatata tcaagtgacg 120

gatctaaaaa gagaagccga tctgtggaca acgcatctgg tggcaacaga ccatacttgg 180  
atgagagcaa gaagcgtaat ctacagagaag atggaagata tgctcattat gaagactgga 240  
gaagtgaaag gaatacagca gcagacacgt ctggatataa ggcccaatca gaagagaagc 300  
ctgtatggac aaacactcga acaggatcaa gggagcattc actggacagg caaaggatag 360  
agtgtggtga cagctatcgt ggaacctata acaatagaca aagacatgaa tggccgcacg 420  
ctagtggtaa ttcctcgaga attggttggg atg 453

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<223> Clone ID: LIB3067-028-Q1-K1-H10  
<400> 27949

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caagaaactc accgtactac ggagatcaat atgtccattt caatgtcaac atccccgaaa 180  
atttgacgtc tagacagcgg gagctgatcg aggaattcgc gaaggaggag caaggcgaag 240  
acgagaagga cgccaaggca gcagctggag catcgggggg atagccggtt ttaggagcca 300  
cagtagtgcc ttttagctgg tatttatacc gtgaccatag acctgtctca aattcgcagc 360  
ggaaaaata tatagatagg tctttggttc ggattttgta gcttggataa atggataata 420  
cgtctaaaac tggttttctg tctt 444

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<211> 449  
<212> DNA  
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<223> Clone ID: LIB3067-028-Q1-K1-H11  
<400> 27950

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aggtgctgga ggttttcacc gcgagcatcg tctccgtcgc ggacaactac gtcgcgccag 120  
tcattgacga cctcgagagc agcggcgcgc gcatggcgtc gctcggcatc tggctcgaca 180

ccacccgcga cttggagcgc ctgcgcgggc tagcgccggg cgtgcgcgcc cggtcgctgc 240  
acctgcgcaa gttagaaggg acgcgcgccc tgccgctgct gtccgcggag cacgcgccgg 300  
aacttgccgg cgtgcaggag agcctgcggg agctggtggt ctactcctcc gacgtcgagg 360  
aggtcacggc cgacgcgcac gtgcccattg tggaggtcat caagtttggg ttccttacga 420  
agctgcgcgt catggcgtgg tcccacgcc 449

<210> 27951

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H12

<400> 27951

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ggttacatcc cgctcaccac gtacctgcgc acctacaaga tcggcgacta cgtcgacgtc 180  
aaggtgaacg gcgccgtgca caagggcatg ccgcacaagt tctaccacgg ccgcaccggt 240  
cgcgtctgga acgtcaccaa gcgcgccatc ggcgttgaga tcaacaagca ggtaaatggc 300  
cgcatcatca agaagcgtat ccatgtccgt gtggagcatg tg 342

<210> 27952

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H3

<400> 27952

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aggtagatag gttggtgtat ctatcgctcc cgttgatcatg ctctcaacaa gttgacttaa 180  
tcttcttctt cttctccgtc cccctttttt atttttatta tgtcactagc aagattcttt 240  
tggtccattg ttttgttgtg ttgtttactg ctgctacata aggaatcaat ctcatgggaa 300  
gatgatgagc aaaagcaaag caagaccagg ttgctgttat aaatttatat atatatat 358

<210> 27953  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H4

<400> 27953

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cggaaggaa tttccaaagc ctgacataat catctcagat cctaatacgcc ctgggatgca 180  
catgaagtta atcaagtggc tgttagaagt taaagctcct cgaatagtgt atgtctcatg 240  
taatccagct acttgtgctc gggatttggc ctacctatgt catggcgtgg aggagaaaga 300  
tttgagagga ttctatgaac tgaagagtgt aattcctgtg gatatgtttc ctcatactcc 360  
tcatattgag tgtgtatgct tattggagct gcgttgattt tcagttttgg tcaggtaaac 420  
ccactggagc cttgtttggg tgacgagtat tcacctc 457

<210> 27954  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H5

<400> 27954

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ctagcacgcg atggcgaggt cttccaagat gatggtggcg gcagctctgc tggccttggc 180  
cctggccgtg tcgaccgccc aggcgaggaa catcaagacc acgacgacgg agaagaagga 240  
cgacgcggtg gtgcagccgc agaccttccc gcccttcgac cgctcggcg gcggcgcgctc 300  
cccggcgttc ggcggcctcc ccggcggcag cattcccggg ttcagcatgc ccggcagcgg 360  
cagcagccta cccgggttca gcttgcccgg cagcggcagc atgcccc 407

<210> 27955  
<211> 422

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-028-Q1-K1-H6  
  
 <400> 27955  
  
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 cgagctctgc gtgcgtgtgt gtgtctgctc tagattagat cacctccatc gtcaataatt 180  
 gcaggcagat ccatagtctg ctgggtggcga gacaaagcaa cggatcgctg tcgatccgga 240  
 gagcggaaag cgcgcagatc gcgacggcca tggggcgcg caaggtggtg ctgcagcgga 300  
 tcgagaacaa gatcagccgc caggtcacct tcgccaagcg ccggaacggc ctgctcaaga 360  
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 cc 422

<210> 27956  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-028-Q1-K1-H7  
  
 <400> 27956  
  
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 gcgcagagac aggcgtgttc gtactcgctt atctccgca ctcaaagctt cttccatttc 120  
 ctaccgccgc cgctgcagct ccacccatt ccgtcgacac catgaggagag tgcattctcga 180  
 tccacatcgg ccaagccggt atccaggctg gaaacgcgtg ctgggagctt tactgcctcg 240  
 agcatggcat tcaggctgat ggtcagatgc ccggtgacaa gaccattggg ggtggtgatg 300  
 atgctatcaa caccttcttc agtgagactg gtgctgggaa gcacgtccct cgtgctgata 360  
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 tca 423

<210> 27957  
 <211> 449  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3067-028-Q1-K1-H8

<400> 27957

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tagtgaagag ctcagactaa aggatataga gttcatgaaa aagaaacttg aggaccttga 180  
taagtcaatg aagaggagca atgataagct gctcaaaatt gagcatgaat tatgtgagag 240  
ggtcataaggc catcttgagg aagggaaaga tgtccgttta ggggattgga aagctgctga 300  
cattgagatc ttgaatacat tccagctact ttcagctaag ccagttgtct atttggtgaa 360  
tatgagcgag aaggacttcc agagaaaaaa gaacaagttt ctaccaaga tacatgcttg 420  
ggtgcaggaa catggtggtg aaaccatac 449

<210> 27958

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H9

<400> 27958

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gcaggggctt ccaaattttc 80

<210> 27959

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G4

<400> 27959

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agttattggt ggacagcaga ttggtcgaga gaaagccatc ggcaactgaa caagctccag 120  
cacatgttgc aaaggatgca gctaccatcc gctctacca acaaggacaa cagagacctc 180  
agaacttgct gaggcaggaa ttcttgga ggtttaagag gagcgctgga ctggctcgctt 240  
caggtgttgc gaagaatcta aacaaaacag ccaattatat caaagaaaat attcaggaca 300

tgtacaccga tgcgtcgtcca ccaaagtagc aaccatgccg agtgattgtc gtcaagagct 360  
gaagaaatcg cttgctactg gaaactttac atcaggacta cctggaaact ttac 414

<210> 27960  
<211> 452  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-028-Q1-K1-F10

<400> 27960

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tatgcatttg gtgtgggtct tagtactttt gacaaggcct cgggtgaatta ctatgtgcaa 120  
tcacacatac agatgaatga atatcgagat cgtgttgtcc tgccggctgc atcaaagaag 180  
tttgggagac agattaatac ctgcttgaag gttatggata tgactggcct caagctgtct 240  
gcactgagcc aaaataaaaa tgttgccgat gattactact gttgatgacc ttaattatcc 300  
tgagaaaacg gaaacttatt acattggtaa tgctccataa tgtttttcag cgtgggtggaa 360  
agggtgtgaag ccactcttac aagaaagaac ttaaaagaag atccaagtnc tgtatggctc 420  
tgggagggat gagttactga aggtcatgga ct 452

<210> 27961  
<211> 377  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F11

<400> 27961

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ggatgcatat ggtgtgagtc tggagtactt ttgacaagga ctgggcgaac gactatgagc 120  
atccacacat actagacgaa tgcattatcc agattatggt gacttgacgg ctgcctcaat 180  
gaaatttgcg agacagatta atacctgctt gaacctgata aaaccgactg gcctcaaact 240  
gtattcactg agccgaatat acatgttaac caagatgact actgcggatg aacgcactta 300  
tcctgagaca ttgggaactt atgacattgc taaatgtcca taggtacgcg ccgtgtattg 360

gaacgttaag accccac

377

<210> 27962

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F2

<400> 27962

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ggatatctga atgaggtgcc gaatataagc aaattcaagt gaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa 240  
aaaaataaaa aataaaaaca aaaagagaaa aacaactaaa aaaatgagga aaacattcaa 300  
aattaaacac aatttccttc cttaaaaaaa aaccccccaa cgtcatctat actgtccact 360  
aaaaaaaaaa cggcggggact ttttaaaaac tttttttacc 400

<210> 27963

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F3

<400> 27963

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tggtattacca cctcctcacc ctgctatgcc actgcctcat cctcaccctg gccatcctgt 120  
tcctctgggtc caatgccacg actttcatca acaagtctcc tcctaacatc cccgaggtga 180  
agatcccaga tgacctggct gtgaatgttg cacgttcctt gagatatgag atcaacaggg 240  
gttttgctac cttgagggag attggccaag gccatgacct caagaaattt ctgattgtga 300  
ttgcaggact gtggatcctt tctgttcttg ggagctgctg caatttcctc acctgtctt 360  
acatagtttt tatggtactg tacactgtac cggtcctgta tgagaaacat gagga 415

<210> 27964

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F5

<400> 27964

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tattggttca gcaagcacat acatgattta tgacatggca tctgctatct ttgtt 115

<210> 27965

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-F7

<400> 27965

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caaaaataca ttgatcagtt ccatatgtta tacgatgact tcaacatcac caagcttccc 120  
ttgctttcag aagaggtttg tgggtgttcaa gctctccaaa acttttccca gcacttcctt 180  
acaccataca agtctactct taaaaggggc accgtcgagg agctcgaaca gagaataact 240  
atattaaaat ctgcactgca agaagctgag acagagttag atagggttag gaaaggggaag 300  
cagtcagtggt gatttttttt ccacaggtca agtgtgtaaa accagagaga cgatcaattt 360  
tttcgtgtca ttacactctt gttgatttca ctatcatggt tcctcatcga ggagtttaga 420  
cttngtatag ctaatcgag 440

<210> 27966

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F8

<400> 27966

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gtcatcggcg aaggcgccgt gaaggaggag gccgggggca gacggcagcc gtcggccggc 180  
tacgcggccg tcgtgattgg cggcaccttc gaccgcctac accagggcca ccatctcttc 240

ctgaaggcgg cagcggagct ggcgagggag aggatcgtgg tcggcgtctg cgacggcccc 300  
atgctcgcca agaaacagta cgccgacctg atacaaccga tcgagaagcg gatgcagaac 360  
gccaaaggatt atattaagtc cataaagccc gaccttgatg ttcattgtgga gcccatcgtc 420  
g 421

<210> 27967  
<211> 445  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-028-Q1-K1-F9

<400> 27967

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gctctccctc tctcgtggaa gccagccaca caaggcagaa agagagagtg acgttggtgtt 180  
ccatcccgtt ccgctgaagc aaccgctctc ctacaccaa ccaccacac cactctaggt 240  
ctctagccga tgcgatggat gtggatccag cagcggacca gcggaggaag aacaagggcg 300  
ggctggagtc ggagctggag cgccactacg acgacctgca gcgggagatg atgctgatgg 360  
ccgccgatcg gccgcacaag caactgcaac agcatcgacg tcacggggcac cgncccgatc 420  
tgctccagaa ctgcgacctg ccccc 445

<210> 27968  
<211> 385  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G1

<400> 27968

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gtggaagaac gggggacact gtcgccgtgg tcttaagtct atcagcaatg gttttcttta 180  
gatttctect cctgtatcac ttttttgcgt cacatcatca atattttatt ctataccttt 240

ttttatctct aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300  
 aaaaaaaaaa aaaaaaaaaa aaaacaaaaa atataaaaaa aaaaaatttt acaaacacaa 360  
 acttacaaaa gttaacata aaata 385

<210> 27969  
 <211> 319  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G10

<400> 27969

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 aagtcggtaa tggtgatgag cacccttttag aaaagcaaga ccaccaggat acatcaagtg 120  
 actgatctaa aaagagaagc cgatctgtgg acaacgcac tcatggcaac agaccatact 180  
 tgaatgagag caagaatcgt aatctcagag aagatggaag atatgctcat tatgaagact 240  
 ggataactga aaggaatata gcagcagaca catctggata taatgcccaa tcataagaga 300  
 aacctgtatg gacaaacac 319

<210> 27970  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G11

<400> 27970

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 ggagagtacc aggatcaacc ggtccacag taccaggttc attttcttct tcttctcgtg 120  
 gtcacgtgtg cgccaaagtt agtttatttt attcctagtt tgggggcatt agtgccgtag 180  
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 gatgtatccc gggaaatttt tgtagatcgg actcgtagaa gaagagattg caattgcaat 300  
 actgtgtatc actctgatgt tgtccagttt gagaacttga caggtgtatg ggatttgccc 360  
 cgaggctgct ggttttcctg ctgcttggtt tgggaaaccg atctctcgat tgtgagatac 420  
 aggcaggttt gcgcacgaga gtactctc 448

<210> 27971  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G12

<400> 27971

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cactcacgac gcttctcaga attcagcgcc caaagctgca aatcacgcga accaaactgg  180
acctcagaac aacagcaacc attcaacgtt ggtccctgtg aagcccgcgc cgaaacgccg  240
tggcaggaaa ccgaaacgcg ttgtgcacaa gcagctggac atcccagata tctgcgaccg  300
gcttacatcg tctgtggcgt gcgaagaaat actgtactgt gaaggaatgg tctgctatga  360
ctatgatcag aactcccttc tcttaaaa                                388
  
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<210> 27972  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-G2

<400> 27972

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gtcaaagttc tctgggttat ctctttggaa gcggtgagcc ccccaaacca gcagtggcac  180
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ctggcaactt ccttacggac cgtccttcaa ccaaggtcca cgctgctcct ggcggtggct  360
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<210> 27973  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 27973

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tcatgtgaaa acagctggcc ttcttgaga tggttttggc gccacaccag agatgagcaa 180  
acgaaacttg atctgggttg tcagcaaat tcagcttctt gttgagcaat acccctcatg 240  
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agattggcat gttcgtgacg aanactctgg acgcacaatc ttgagagcta caagtgtttg 360  
ggtgatgatg aantagaaca ctagaanggc tttcgaaaat gccggacgaa gttaggg 417

<210> 27974  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E9

<400> 27974

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ttcttcttgc cgctctttgc cttgtggccg ctgcgcttct ctcccttccg tctgaatccc 180  
acagccttga agactttctca agcaacgacc ccactccaga gattcaaacc ttcttcaatc 240  
cccaagcccc tgctctccct gaagcccttg acccgcttctt cattcccgtc tacaccattg 300  
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ccgctggcac cttaccctct gcaagcacta cttctt 396

<210> 27975  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D5

<400> 27975

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 gtgtcgcacg gcatgcttgc cgtttatctt atccctagct aagctacctg tgatagctta 180  
 attttacta ttgttcgagg tttttggcac gttatcggtt gtcttgctgg ccaggctata 240  
 agtctggttt atctgttatg tttacccttt ttaacagttt gtcggtatta ttcgtaatgg 300  
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<210> 27976  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-028-Q1-K1-D6

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 tggcggcgcg ggccggggccg gcggcggaagg gcgggggtcgc gctggtgctc accgcgcagg 180  
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 ccggggccgc ctacgtctgg gtcggcaacg ccgaaacgca gtgccccggg cagtgcgcgt 300  
 ggccgttcca ccagccgctg tacgggcccc aagcgccggc gctcgtgccg ccgagcggcg 360  
 acgtcggcat ggatggcatg gtggtcaaca tcgncagcat ggtcgcccgc gccgtcacca 420  
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<223> unsure at all n locations  
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 gccggagctg cctccgccac accggaggcc aggccggccg gcgaaccaag ccgtggcgct 180

gagtgccgcg gctcggcggc cgaggacccc ataaggagag tcatgttctt ggctccctgg 240  
 ggtcacacat aagaacacaa accggccggc cgagatctgg gcatgcaagc ttgcatggcc 300  
 atgtcttggc cagtcagatc tgcaaacac caaactgtaa aaaagaactg gagcctgtct 360  
 tgtaaactcat ggagcttgct gctgcttgca cccatganaa acatgaacgc atgggagagc 420  
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<210> 27978

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D8

<400> 27978

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 ccaggccaac gccctcagca agatccagaa agacatcgcc aagaaccacc aggtccgcaa 180  
 gcagtacacc atccaggctc gcgagaacga gctcgtcctc aaggagctgg agctgctcag 240  
 cgatggggcc aacgtgtaca agctcatcgg acctgtgctg gtcaagcagg acctcgcgga 300  
 ggccaaggcc aacgtcaaga agcgcacga gtacatctcc gcagagctga agcggatgga 360  
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<210> 27979

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D9

<400> 27979

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 aaaaaaatct aaaatttaaa aaaaaatcgc ggcaactttt taaaatttcc aagttttaca 180  
 ccatcatctt tttaaagtga caactttttt taaacggcat tcttataaaa accttttgtt 240

ctggatttaa aaacggtttc aaaaaaaaaac ccttttaaaa accatcttta atgccaatga 300  
gccattttcc ctt 313

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<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E1

<400> 27980

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ccgtggcggt tagtggcgcc ggacggacca cgtccccgca gcagcgggtca gcggcggtg 180  
gcctagctgc ggtggcttga ggcggtctc ggacgggtgc ctcgagctgg caccagcggg 240  
tgggtgccgc aactctcacc gctagctggt gtagaggcgg cgagtcccg cgccatggag 300  
ggtaggccgc aagtgtccgc ttagagaggg gtcaacaaag ggacttgtca agctacgaca 360  
ctgcggtctt cggttgcctt gctcagcttg ttgttgccgt acatgatcct tcatgat 417

<210> 27981  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E11

<400> 27981

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ctgcggtggc gctgctgggg ctgggctggg cgtaccaggc caccgaccg ccgaccccg 180  
cgatcttggg cgcaccaaga tggccgtcga tcagctcacc tagaatccgg ctgaaagacg 240  
gccggcacct tgcttacagg gaggaaggag tgcgcaagga gaacgccaag ttcacgatcg 300  
ttttcatcca tggcttctac tccaccaatg agagcgggtt ccccgagtcc catgagcttg 360  
tgagagcagct gggcatatac atgctcttct tcgacagagc cgggtactgc cacagcgacg 420  
ccaaccgaa gcgctgcctc aagagcga 448

<210> 27982  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-028-Q1-K1-E2  
  
 <400> 27982

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ttcagatatt taagatgcat tgtacatttg gttgtattgt ttgctcctgt cctagtgaat  180
gcctatgggt cattctaagt taccattttg tggttaattgt gttgtaaaaa ctatatgtat  240
caaattatat tagtactgta gctttacact gttagttctt tacggaagat ttagtctcct  300
ggcctccttt tttgtaatat aacagtccta tcattgaatg cttgtcaggg aagggtgtgt  360
gcctaaccct tggggcttgt ttggg                                     385
  
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<210> 27983  
 <211> 289  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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tagacgacnn gacgaagagc gagcgcnncg ataagaaatc tgcgcctgtg cacaanncga  120
cgaagcngga aggggggtacc cgtacctnnt ggagaatccc aagnnnaagc taannngaaa  180
tggttcagcc nnncagtttg cnnatccgaa gcatggggct tgctatgnnn tcaactgcnn  240
aactattggg caacacttta tcctgnngtg gtgaaatggg ttgccaagc                 289
  
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<210> 27984  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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tctcccgcag caccaccatt tccgtaccg ccgcggcgcc ctccctccgg cgctcctct 180  
cagtcacctc cacagcctct gtcgcggcaa ccgccccgcc gccgccgccg cccagcgca 240  
ctggcgccgc ggccgtgggc gcggatcggg tgcggtggga ctatcgtggg cagaggaagc 300  
ttgttccgct gggacaatgg atgcccaaag tggccgtgga cgcttacgtc gcccccgagg 360  
ccgtgctcgc cggccaggtc accgtccacg acggcgccctn cgtctggagc 410

<210> 27985

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E5

<400> 27985

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cagcaacaaa tctacataaa aaaaaaaata gatcaactct tcaaaaaaac ctactttcct 120  
ccctcaatct tactaacacc ttactctcct ctttcccccc ctaacttcca tccactgcct 180  
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<210> 27986

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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ctggcaagac cataaccctg gaggttgaga gtcggacac catcgacaac gtgaaggcga 180  
agatccagga caaagagggc atccccccag accagcagcg tctgatcttc gccggcaagc 240

agctggagga tggccgcacc ctagcagact acaacatcca gaaggagagc actctccacc 300  
 tgggtgctccg cctccgcggt ggtagtaag ccatgggttca tttaagctgc tgctgtacct 360  
 gggatatctgc gtcgtctggt gccctctggt gtacctctat atggatgtcg tcgtctaata 420  
 aacatctgtg gttngtgtgt catgaa 446

<210> 27987  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-028-Q1-K1-E7  
 <400> 27987

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 gccgcgcgtc gtcggcgggc gaccggcagg ccacctgcaa ctgcctcaag agcatgacgg 120  
 gccggctcgg cggcgggcgtc agcatggcca acgcccgaac catccccggc aagtgcggcg 180  
 tctccgctcg cgtgcccata agccccaccg tcgactgcac caagatcaac tgatcgatgg 240  
 aaccatagtg gaggtagctc gctcgttgga tggcagcgta cgtggccata agcagcatgc 300  
 agtcgtcgtc gtagcagaga tgtcctagct acgtgtgtgt catgcatcag actggcacat 360  
 aataaagaag tagatcatgc acccactagt gatcacttcg tctagtgtcc ctccgttcaa 420  
 tgtcgtc 427

<210> 27988  
 <211> 445  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-028-Q1-K1-E8  
 <400> 27988

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 cgtcatggag tctggctcca gatccagcg cggggcgggg ttcgacgacg acgacggcct 180  
 cagcagcgc cgcgaggtct cctcttcgct ccaagatttg acagtaaggg tggaccggaa 240  
 ggggtgggagc tgcagcgatg gtggtacgga tcagcggcca aacacaccgc ggtcaaaaca 300

ctcgccaca gagcaacgca tacgcaacat gatcaatgat aggtttcaga tacttatgga 360  
gctgttgcca cacagtgatc aaaagagaga caaagcaaca tttctcttgg aggggtattga 420  
atatatacgg gttttgcaag aaaag 445

<210> 27989  
<211> 402  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-028-Q1-K1-D4  
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gcacgcaagc aggcaagcaa gaagagagcc gatcgaccga gagctagcac gcgatggcga 180  
ggctcttcaa gatgatggcg gcggcagctc tgctggcctt ggcctggcc gtgtcgaccg 240  
ccgaggcgag gaacatcaag accacgacga cggagaagaa ggacgacgcg gtggtgcagc 300  
cgcagacctt cccgcccttc gaccgcctcg gcggcggcgc gtccccggcg ttcggcggcc 360  
tccccggcgg cagcattccc gggttcagca tgccccgcag cg 402

<210> 27990  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-028-Q1-K1-C11  
<400> 27990

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actattaaag tggaaaagag gatcaatgag attgtgaacc gcttgaataa gacaaaggtg 180  
gaacacaaaa cctgatttaa aggcgtgaaag agaggctatt agtgctgctg aaaaggcaga 240  
tagaaaggca cagcttagag acaagaaacg tagggaagag attgagaggc ttgagaaaga 300  
gaagcacgct gatatcagga gctacaaggg tctaactggc caagagaaga tgacttccaa 360  
taagcaaata gcttctggca tcaagaccct gcaagaactt gactaagact ttatgtgata 420

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443

<210> 27991

<211> 443

<212> DNA

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<400> 27991

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aggccaagca gctgcgtagc acaagccata gctgcgacca tcaagagttg ctgggtttct 180  
gctaggcaac ttctgtcttg atttggacag tccagaaaac agaagtgaat ccgcaatacg 240  
tccttgccat ttcaaatttg acttggttac acctatctgt gacaatgtta atgtaatgag 300  
aaccattgac actagtgaac gtcccaagtg tccacctggg attgcttgcc gttgaaagag 360  
acgatagtct gatgacccat gtatacatga agcccatgat ctcaagtga cagtcattag 420  
ccaatacaaa tatgcagtgg act 443

<210> 27992

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C2

<400> 27992

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acgccggtgg gcatcgtggg gggcgctcgg atctcatcgg tgtacgacga ggacagcccc 180  
acggcgctgg tcgtggaggg cgtgctcaac tcgggtggcg cggggatcct ggtgtacatg 240  
gcgctggtgg acctgctcgc cgaggacttc atgaaccca ggggtgcagag ccggggcaag 300  
ctgcagctcg gcatcaacgc cttcatgctc gtcgggtgcc gcctcatgct catgctggcc 360  
aagtgggcct agtttactag ccagccactt tttgctctc 399

<210> 27993



<211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-028-Q1-K1-C3  
  
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accggtccgg tatgctctac ggcgagcttg cacggtttgt gctgcgtttg ctaggagtgga  180
gaagaaagcc aaagaagggg ggcagcattc agggggccaga agcgctggcg ttcgagggac  240
ctagccggca gtctatcgag gcaccgaaaa cgaacaactg ggacaacgtc tggggaaact  300
gagatcatgc ctatgggtgc aacgagttga atcatataga agaagtgcaa gggctatgac  360
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<210> 27994  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-028-Q1-K1-C4  
  
 <400> 27994

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gccatcatag agctcttggc tctgcggacc tcacatgtgc cctgcaggca tgcagggggc  180
gaggcaaccg atggccgctt gtgctggaga tccacgcgac atcagtcgtg cgtgggcttg  240
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ggcaagcacg gcaagtattc aaggagcttt cttccaggga ccatgtctca tgggttgcca  360
tgctgtcagg gtatgcacag agtggctctt gaaaaggaag ctttcaggct ttacagccag  420
atgcattgga ct                                                         432
  
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 <213> Zea mays

<223> unsure at all n locations  
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tcgactaagc tgggtttatt cttattggagg aaagagagag aacattcggg ctgttctgtg 240  
ggtcttacca cttattgctat tatgcaatct gttgttggtg tgctattgct actattgtct 300  
ctgctgtctt ctatttaatt ttggtgtgtg tttgcgtggg cagtttctca tcgcattcgt 360  
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ggcagggtctt ctgtt 435

<210> 27996  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C6

<400> 27996

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aggctgacac cgacattgcc cctctgaact atgacgcttg cgacaacaac atggacgagg 180  
tgctctaagc tgagtgcatt ctcatctagg aaagagagag aacattcgcgt ctcatctgtc 240  
tgtcttacca cttattgctat gatccaatga gcccaggga tcctaacgct actattgtgt 300  
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<210> 27997  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C7

<400> 27997

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gatc 124

<210> 27998  
<211> 518  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 27998

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tgcnnctcta ctcnacaag gacctgnngt cgctggaacc tggagnngna agttttttca 180  
cttttgatcg anngatggag atnacttaat aagtaccttc aagatattta aaaataatct 240  
gcattaacaa gaaatgctat nntatggcac ggttcaaggg ttgacccgaa ttttgtggga 300  
aattcttaag tcaaagggct ttaagaattg cacctnctga agggcacctg ttactggcta 360  
tantgttcgg caaaaggcct ctactttgca agatctagta aagcaagagc gcacaatact 420  
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gacatgtatg aactaaagaa gccacgtnc a tggacaaa 518

<210> 27999  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C9

<400> 27999

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ttttaggagt cgacagtgtt ggtacgggat cggcagctct tttgactagt tttccattc 180  
aaacattgaa gccagacctt atcattaatg ctggcactgc tgggtggcttc aaggccaaag 240  
gggcaagcat tggagatgta ttctggcat cagatgtttc attccatgac aggaggatac 300

caatacctgt ttttgacatg tatggaattg gagcacggaa aacttctgca gttcctaata 360  
tcttgaagga actcaatttg aagattggcg aattgtcgac tggggattct ctggatatgt 420  
ctccccacga tgagaaggtg atac 444

<210> 28000  
<211> 413  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-028-Q1-K1-D1  
<400> 28000

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caagccctgc acttgagatg cccatggatg tagagatgac ttcaaacaat gttgatacct 180  
ttgattcaac tggcaatgat ttactgaca cctctgctct atgtgaatgg gatgacatgg 240  
atatatttgg tgacgaactt gagcacattc ttcaacagcc agagcaggac tttcaagtgg 300  
accctccttt aacagttgaa gattatggtt atgatcatcc acggttagag caagactgtc 360  
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<210> 28001  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-028-Q1-K1-D10  
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gtacactgac caagaggaat cagtatcatc aaacgagcaa gttgatggat cttcattcct 180  
gagtaaaaaa atcagtaaaa ccgaagatgc aattttatgaa aacacattcg gtctatctga 240  
aggattagaa gaaagtgata gaagatgtcc ccatcatgca acatgtagct ctttctgggg 300  
tccttgtaga aatgacacag actttactga tcaagtaact tcaagtatat ctgattaacc 360  
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454

<210> 28002

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D11

<400> 28002

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atagggcctt ttcgttctaa gtattccaac ttatactact agtaaattca tggatttacc 180

tcacttattg ggctactaaa acatattcaa atatgccatt ttttaaa 227

<210> 28003

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D12

<400> 28003

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caagtacctg gacagcatgg acaggtccga ggtcgggtgg gacgtgcgga tcgcgctcag 180

cgcctacggg tccttcagca gccgagacta cctcagcgcg cagcgtctcc gatgccggca 240

gatgtacttc caccagaaga tcttcgagac ggccgacgcc atcgtcacgc cgatgacagg 300

ggtgaccggg taccctcctg aagaacaagc gctgaaggac ggggaactgg actacattaa 360

cggaactgcg ctggtgaagg acttgatcgg gggcaacttc ctggggctgg cggcgatcac 420

cgtgcccgtc gggtatgaca gggga 445

<210> 28004

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-D2

<400> 28004

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ctcggtagtt tgtcaccagc cgagtctaaa cccacaccag ttgtacctaa ggacatggat 180

ctgctcgacg gtttgtcatc aaatacatct atttctggac atgagaatac aaccaccca 240

tcaataacag cttttcagag tgcaaccttg aagatcacgt ttgatttcaa aatgaagctt 300

ggaaaccac gagagactac aattcatgcc acttttacca atttgacatc tagtactttt 360

acagatttta tttttcaggc tgctgttcca aagttcatcc aattgagact ggatccggct 420

agtggcaaca ctgttccagc taatggaagt ggttcagtc 459

<210> 28005

<211> 80

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-D3

<400> 28005

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gccattgggtt nnngtgtttt 80

<210> 28006

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-C10

<400> 28006

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tctggccctc caggaccacc attttttatg gtgtactctt atgagcaagg ctcaaatcat 180

gctgtcttct catctgaacc aattgaattt ggatctcttg ggccacttcc tgcagcagat 240

ggtgatgaca taccaaggtc gacacgcaa gtaatgccta atgggtttta tgggcaatga 300

cgtgggtgat ataggggtgg ttcctctcat tcatctactg atcaaccatc ctcgcctcag 360

cctcgtcggt agttgagtct tcgtatgatg gcttgatcac ttcgtatgaa accttgcgat 420  
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<210> 28007  
<211> 436  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 28007

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tgccaagatg gacaagagca ccgtccatga cgttgtactt gttggtggct ccactaggat 180  
ccccaggggtg cagcaactgc tccaggactt cttcaacggc aaggagctgt gcaagaacat 240  
caaccccgat gaggtgtcg cctatgggtgc tgctgtccag gctgccatcc tgagcgggtga 300  
gggcaatgag aagggtgcagg acctgcttct gctggacgtc acccctctgt ccctgggtct 360  
ggagactgct ggaggagtta tgacagtgtc gatcccgagg aacaccacca tcncaccaa 420  
gaaggagcan gtattc 436

<210> 28008  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A6

<400> 28008

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ttctcgatct ggtactaatt cactacaacg tactgtgctt acccaatata tgatttaatc 180  
atcatatata ttctctcggt cctggatgac atcgacactg attcctgttt atcatgatcg 240  
agcagcagta cgtacgcgca gcgtatgctc atcttattgc gccatgcatg atcatcatca 300  
tcatacatca acaattgcac acacttcgtt tgctgcacat gcgatcgccg tgcttcctat 360

cgtatactgc ctgattctgg ctgacaccaa tcacaagcag atggga

406

<210> 28009

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A8

<400> 28009

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ttccgacacc aacgaggacg gcggggatga gatcaaggaa gcagctgctg cccccaaga 120  
atccgcccc gagggccagt aagacgatcc gatctccgga cctgatgctg gtctgctgat 180  
gtcggggagt ttaccaggac tgtgccgttc ttgatttctt atagcttata ttctagtaca 240  
cttcgtgttg ttctcttcgt cacggcgctg gcgtgccggt gcgcgtgcgc cgaagctgcc 300  
tgccattgcc attgccattg ccgctgtttt taattaagca cacactctag atgttatgcc 360  
cgcatgctat gtttcgattc tcaagttgat aaatgatggc tggatgctgg ttttcgtgct 420  
ccaagcct 428

<210> 28010

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-A9

<400> 28010

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ggaggcaaga atacaagagc cctctttggt gtatgtctgt gtacttcggc aatcaatcag 120  
ttgacgaaag gaaggaataa agaggaagag gactcggagc tgcagagctt ggctgcagag 180  
gtactgctga agaattacaa gcagcaggct ccatcaaagg cggcccttat cagcagcatg 240  
ttgaagaaca tgaaactcag ctgataccaa ccagctccac acattcagag tggcctgatt 300  
tgatagatag ttaagttaaa ttgatgtggc ttaatatatg ctntgttttt ttataaaaaa 360  
attgtggcac caacattggg caggcttaaa agtagatgc 399



<210> 28011  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B10

<400> 28011

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tcgctgcgtc cctcctcgct gccgacgcgc ggccgtgcc aaccttcttc gtcgccttcc  180
gcgccgaccc caaccccagc agaggcgacg acgctgtacc ccaccacctc gccgccgccc  240
aggacgccgt gctgcacgct gatccagggg ctggcggacc tggaagcggc ggtgtgcctc  300
tgcaccgtcc tcaaggccaa cgtcctgggc atcaacctca acctgcccac caacctcagc  360
ctcctcgta actactgcgg caggcgcgtc cctcgggct tccagtgtt ctgactatca  420
cacgccatc gatgatcga tctggaggct aaat                                454

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<210> 28012  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B11

<400> 28012

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ttaataacat taagatagct gacgagctga tggacttggc aatggagacc agcaggtctg  180
aagacagcgc caacagcttt agcgtctcaa cggcgagtag caaccggaag agagcatata  240
gaacaagccg tgcacatttc tactgggtca cccgagaagc cggatccttt gaatggttca  300
aaggggtgat gaatgaggtt gcagaaatgg acaagaaggg tgatcatagag ctgcacaatt  360
acctcactag cgtttacgag gaacgcgacg cacggacaac tctgctgtcc atggtccaag  420
ctctgaacca cgccaagcac ggcgtc                                446

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<210> 28013  
 <211> 452

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 28013

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 agcgtcgggg ccgtggaggc gctcaaggac caggcggggc tctgccgctg gaactacgcg 180  
 ctgcgctccg tccaccgcgc cgncaaggcc aacgctccca gcttcgcgca ggccaggaaa 240  
 aagctggcgc cgcccgccgc ggacaaggcc gccgcggagg aggggatgag gaccgtcatg 300  
 tacctcagct gctggggccc caactagcta gggcctctgc tagtttcggc ttcctgcaac 360  
 cgtaccgagc tcggcttcaa atctgatcca tgactgggtg ccttgccgac ccactgtaac 420  
 ataggagtat agcaccacga tgatgatgat ga 452

<210> 28014  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-028-Q1-K1-B2  
 <400> 28014

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 tgatctaata gactccgaac ctacactgat caaacctctg gtaaaatgaa ctgcacgtga 180  
 tggaaaacca taggaattgc tgagaggtcc actctattat gtccctgggtgc tgctgttcag 240  
 cgtttttagtc ttctggcgtg agtcccccat cgggatcgtc tccttgctga tgatgagcgg 300  
 tggcgatggt tttgctgaca ttgttgggag gaggtatggc tcagcgaagc tgccattcaa 360  
 tcggaagaag agctgggccc ggagcatctc gatgttcatt tctggtttcc tgctgtccgc 420  
 gatgatgatg ctctac 436

<210> 28015  
 <211> 428  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B4

<400> 28015

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atcgccgcgc agctcaacta cctcctctcg cactccaagc tgcccattag ggtggtacag 180  
atctggtccg gctgccgcaa cggtcgccct gccgatcggg tcaggctcgc catccccctc 240  
tgctcgact acgtccactg ggatttcgtg tacaatgcgc tgtctcccaa ggtggcacca 300  
gacgtggtgt tcggtcgga ggatgagagg ttccagccgc tggtcgatta cgctgctgct 360  
ggaaatggcg ataagagctg cttggcgcgt tgggattgcc gcgccccga gggactccat 420  
gcgctcgt 428

<210> 28016

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B5

<400> 28016

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ctccgtcttc gctccctccg cagcgtcaga tcggccgctg ctccgccgagc cctagcgccg 180  
ccgatctcag tccgtaccag tcttgcaa at cggggctcgc ccgcggcggc aagaacgatg 240  
gccgaggagg ccaagtatct ggagacgggg cgggccgacc gctccgtgtg gctcatgaag 300  
tgcccccccg tcgtctcccg cgcctggcaa gccgccttcg ccttcgcctc ttctccgac 360  
gccgctaacg ccaaccccg tgtc 384

<210> 28017

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B6

<400> 28017

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gttccccctt tagattgaga ctatgaatga tcgtatgcta atgatgtctg gtgcacagta 180  
cattgcgctt gttaaccact atgtacatgg cttatttagt gatagtgtaa tcaactcaact 240  
gtcggttgac cgttcaagtt cataacattg aggttctttc tttgctgcat tggctctctaa 300  
agagccacaa catctgggca tctggctcta tataaggcgg cgttccttgt agcttcacac 360  
tcaccactag cctcggtta tataaccttt ctactgttag cacaggctta ttgcatgtgc 420

<210> 28018

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-028-Q1-K1-B7

<400> 28018

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gggacgacac cgtcgcaggc ccgcgcccgg acaccgggct cggccgcctc cgcaagcagc 180  
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cgccctcgcc ggcttcgggt agcgaggaga cgccggtgaa ggtgacgcgc agcatcatga 300  
tcaagcggcc cgcggggtac ccgtcgtcgc cgaggagcgc ggcaagcacg ccgncggcct 360  
cgccactggg gactaccccn gccatctcgc cgtttgccgg cgccggtggt cggttcagaa 420  
ggaaatcatc gtccgacgca t 441

<210> 28019

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-B8

<400> 28019

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ggccgctacg cgcagcgcgt cggcagcggg gccccgtct acctcgcggc cgtcctggag 120  
 tacctcgccg ctgaggtcct ggagctcgcc ggcaacgctg ccaaggacaa caagaagacg 180  
 cgcacgtcc cgcgccacgt gctgctggcg atccgcaacg acgaggagct cgggaagctg 240  
 ctgaccggcg tgaccatcgc ccacggcggc gtgttgccca acatcaaccc ggtcctgctg 300  
 cccaagaaga cggcggagaa ggctccagc ggccgggagca aggaggccaa gtcgccaag 360  
 aaggccgtca agcccccaa gaaggcatag gggttggagg cggatccgat tgtgtcatgt 420  
 gta 423

<210> 28020  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-028-Q1-K1-B9  
 <400> 28020

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 agatggtgga taaggctgag ttgaggcctt ggcaaggcac ttgccagcat ttaattggtg 180  
 acttgctgag ggtaaacaaa cttgaggagg ccctggccct tctcaagaca atgaaaacct 240  
 gcaagttccc accttttgcg gaccggttcc ctccttacat tgccaagtat gggacagttg 300  
 aagatgcaag gaacttttcc aaggcattga cagtgaaaac ttctccagca cctgctgcct 360  
 acctgcatgt tctcaagttg ttcttttgcg gaggaagata ttctgaagct caagatttac 420  
 tgtacaaatg ccctatttac a 441

<210> 28021  
 <211> 270  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-028-Q1-K1-C1  
 <400> 28021

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agctgtggta cgacaccgtc gcaggcccat gcccgacac ctggctctgt cggctccgca 180  
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 <211> 451  
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 <213> Zea mays  
 <223> unsure at all n locations  
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 catcccgccg gaccagcagc ggctaattct cgccggcaag cagctcgagg acggccgcac 240  
 cctcgccgac tacaacatcc agaaggagtc caccctccac ctggtgctcc gcctccgagg 300  
 tggcgccaag aagcgcaaga agaagacgta caccaagccc aagaagatca agcacaagca 360  
 caagaaggta aagctcgag tgctgcagtt ctacaagggtg gacgacgcca ccggcaggtg 420  
 acccgncttc gcaggagtgc cccaacaccg a 451

<210> 28023  
 <211> 464  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-027-Q1-K1-G9  
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 aaaatatccc cagatagcta ggctcggccg ggacgtacgc atggaggtgg aggaggagct 120  
 gcctgctagc gctgatctta ccggtggctc aaagcaggcg accactacga cgcccttcta 180  
 cctcgctta gatcacacag cttccgccag gtcgtctcca ccgccggcag aggcgccgcc 240  
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tatgtccac ccactctatc cggctgtctt gagagccttc atagactgcc ggaaggctcg 360  
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agacgacaga caagaacagc gacgagcagt agaccagag ctcg 464

<210> 28024  
<211> 419  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-027-Q1-K1-H1  
<400> 28024

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cacgacggca ccgtctgggc ccagagcgcc gcattcccgc tgttcaagcc tgaggagatg 180  
gccaacgtca tgaaggactt cgacgagccc ggggttcctg ctccgaccgg cctcttcctc 240  
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ggatctggag gcataaccgt gaagaagacc ggtgaggcgc tggtggtcgg catctacgac 360  
gagcccatga cccccgggca gtgcaacatg gtggtcgaga ggctcggcga ctacctcgt 419

<210> 28025  
<211> 274  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-027-Q1-K1-H10  
<400> 28025

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tctcatccaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaatg 180  
ataaaaaatgg gatgcctcct aatggattca acaaattatt acttgacat tttatcccaa 240  
aactattcat tagagctact taaattaatt tcat 274

<210> 28026  
<211> 384  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H11

<400> 28026

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gtcatggtgc gccgcgccgc gcccgactgg ctcccccttcg tgccgggagg gtccttcttg  180
gtgccccccg tgcgccgtcc gcacgggggtc gccgagctcg ttggccggat cgcggctgct  240
ggggggcacct aatggggcgc ctttgccgtt tgggtgctcgt tcgaagtctg attctttatt  300
tctctttttg attaagtttt cttattttct tttttgtttt attttttttt tgtatggatt  360
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<210> 28027

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H12

<400> 28027

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aggcggacgg gaaccggcgc ctggaggagg ccatccacgg cgacagggag cgccgcgccg  120
cgcccgaacc gctccccgtc gtgccgggag gg                                     152

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<210> 28028

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H2

<400> 28028

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agtctaaaca gatccagaag tttgctgtac gtttcccaca gccctgtgac gcagattcgt  180
tcttaagttg tgtggaatgc tcatgctgta gcagcgtatc catggacatc ataccatttg  240

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gaaatgatta tgtgtgtgaa gatccatcag catctgaata tattgcttct aatggacttc 300  
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aaccaccaat gaactaccac taggaaac 388

<210> 28029  
<211> 307  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-027-Q1-K1-H6  
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agcgtgccgt gcccttgtag atttccaaat gggttatatgc atatgtacta ttgaaattgt 240  
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<210> 28030  
<211> 437  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 28030

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gattggttgc agatctagaa gaagatgaac aacctaaaaa gaaggttaga ttagggagcc 180  
cagcggctca atggatttca gtttataatg ctaggcggcc catgaagcag aggtaccatt 240  
acaatgtggc tgactcgagg ctaagccaac atatagaaaa gggcaacgat gatgggcttt 300  
acattagcag cgtggcttcc tcggcaaacc tttgggcact catcatggac gcatgaactg 360  
gtttctggtc tcaggtttat gagctctcac cagttttcct tcacaaggac tggattatgg 420  
agcantggga gaaaagc 437

<210> 28031  
<211> 450  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A10

<400> 28031

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taaacaaagc cagcacattt ggcatcattt ggctatgttt ttccgagatg aactgttatc 180  
ttggctcgtg aggcggcctc tgggcattcc atcagtcctt gtcgctgctg gaatgatcaa 240  
cccatcagat ttccaacaga aggtggtaaa caatgtggag catgtcatca gtcgtatcaa 300  
gtcaatatcg ccacattgtc tggctgagga ggaggagaat gcaaccgagc cacctcagtc 360  
ggtacaaaga ggcgtcaccg agctggtgga agcggcattg tcgtccagga acctgtgcat 420  
gatggatccg acgtggcacc catggttctg 450

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A11

<400> 28032

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ctaaacaaag ccaacgcatt tggcatcatt tggctatgag cttcccagat gaactgttat 180  
cttcttcgtg aaagcggcct ccgggcattt catcagtcct tgcgctgat ggaatgatca 240  
acccatcaca tgaccaacag atggtggcaa acaactgtgc acatgtcatc agtcgtatca 300  
tgataatctc ggcacattgt ctggctgacg aagatgataa tgcaac 346

<210> 28033  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A12

<400> 28033

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tcctaaacaa agccagcaca tttggcatca tttggctatg tttttccgag atgaactgtt 180  
atcttggtcg tggaggcggc ctctgggcat tccatcagtc cctgtcgctg ctggaatgat 240  
caacccatca gatttccaac agaagggtgt aaacaatgtg gagcatgtca tcagtcgtat 300  
caagtcaata tcgccacatt gtctggctga cgaggaggag aatgcaaccg agccacctca 360  
gtcggtagaa agaggcgta cagagctggg ggaagcggca ttgtcgtcca cgaacctgtg 420  
catgatggat ccgacgtggc acctatggtt c 451

<210> 28034

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A2

<400> 28034

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aatcaagcaa gacaagatgg tgaagctcgc ctccggaagc gtcggcgact ccttcagcgt 180  
cacctccatc aaggcctacg tggccgagtt catcgccacc ctctctctcg tcttcgcccg 240  
cgtcggttcc gccatcgctt acgggcaact gacgaatggc ggcgcgctgg acccggcggg 300  
cctggtggcg atcgcgatcg cgcacgcgct ggcgctgttc gtgggcgtgt ccgtcgccgc 360  
gaacatctcg ggcggccacc tgaaccggc cgtgacgttc gggctggccg tgggc 415

<210> 28035

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-A3

<400> 28035

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ggagatgctg aaggaattga aaagcttgct tctttggcaa aagaacatgg aaaaaacaat 120  
gttgctttcc tctgcctttt tatgcttggt aaagtggaag attgcataca gttgcttgta 180  
gacagtagcc gtatacctga agctgcacta atggcgcgat cgtatcttcc tagcaaagta 240  
ccagaaatag tagcaatttg gagaaacgac ctcagtaaaa ttaatccaaa agctgcagag 300  
tctctggcag atccttctga atatccaaat ttatttgaag actggcaggt tgctctaact 360  
gtagaaaaaa gcgttgcttc tcagagggat cattatctc ctgctgacca atacttgaat 420  
catgctgaga agtcagacat gattcttgtg gaagct 456

<210> 28036  
<211> 382  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-027-Q1-K1-G8  
<400> 28036

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agcggatggc aatggctctg cttccgctat tgctctcggg cctcatcgtc tcctgcgtcg 180  
cgcagtcgcc ggcctcgctc ccgtacgcgt caaatgctcc tccggtcagc gcctcggatc 240  
cgcggggctc tgctcgccca ccgacaactg cggctctcggc gcctcagggc tctgtcgcg 300  
caccgacgac agctgcggcc tcggcacctg aggttctgt agcgccaccg atgacaacgg 360  
cggactcggc gccgcatgcc tt 382

<210> 28037  
<211> 481  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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 gatgaacgct tattgtgacc gccagtctgt ggacatgaat gccattgcgt tcctgtttga 180  
 tggccgcagg cttcgcggcg agcagacccc tgatgagctg gagatggagg acggcgacga 240  
 gatcgatgcc atgcttcacc agaccggagg cagcgttcct agcaccacct aaaagcatca 300  
 gtcgcggagc ttcgttttgc tctccgcctt gcgtagtagt aaacaaaagg gaaaaagtct 360  
 ttttaaggaa cttgtgatgc tctggctcct tgtgccattg ctgagggaca ttcctaggnn 420  
 cttgttagta gtatggtttg gtacccttgt ctgtcatcac tcgtttatct atccctaata 480  
 c 481

<210> 28038  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-027-Q1-K1-F4  
 <400> 28038

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 acagcatctc agcgccgccg ccatcgtcgg tcacgacggc agcgtttggg cgcagtccga 120  
 gagcttcccc gagttaaaagc ctgaggaggt tgctgggtatc ataaaggact ttgatgaacc 180  
 tggctactctt gcaccaactg gtcttttcgt tggagggtact aagtacatgg tgatccatgg 240  
 tgaacctgga gttgtcatcc gaggaatgaa gggcactggg ggcattacta tcaagaaaac 300  
 cggcatgtcc tcgattatcg gtgtctacga ctagccaatg actccagtgc aatgcaacat 360  
 ggtggtggac aggctaggcg attacctgtt tgagcagggc 400

<210> 28039  
 <211> 447  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-027-Q1-K1-F6  
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aggttgctgt ccgcagaatg gttgactatt ggacatatga ctcaaaaaaa ggaaactggg 180  
 tatgtggggc tgaaaaacca aggagctacc tggttatatga actcccttct acagacacta 240  
 taccatatac cctacttcag gaaggctgta tatcatatgc caaccactga aaatgacata 300  
 ccatcaggaa gcattccctt ggcgctgcag agccttttct acaagctcca gtacagtgc 360  
 agtagtgtag ctacaaaaga gcttgacaaa tcttttggtt gggacacatn atgatctttc 420  
 atgcagcatg atgtacaaga gctcaac 447

<210> 28040

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F7

<400> 28040

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 gggaggcgcc caagcacgac tcgagcgagg ggcagtaaag ccggctttac atgcctagaa 180  
 gctagtacct agtgtttgc tctgtctaata gacattatgc aatgtgatct ggaccctggg 240  
 ttcttgggtg cgacgcttgc agcagccgctc ttatgattat ttgtcgggaa aatttggggg 300  
 ctccccatat gagatgctgc cgggcaagac ctgcctatcc cccacctcgt ttcaggcggt 360  
 ggacgctgga gcctgggtccg gttgggttgg gaagccccctt aaactgggtgt cgc 413

<210> 28041

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F8

<400> 28041

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 gttgtctaata tgcttattct agaggctttg cttgcaagca accaagcatg tgtgttggat 180  
 ttatcatcct gtctagtatg atggaccctg cttggatagt atgactaata tntagagcaa 240

agctagtacc taaaccaaga tttttggtaa ggggcatgta tacaggatta tagccgatac 300  
 tgattgctgc cggttgctgc tgctggaaca atggcagaga atgtataatc gggctgttat 360  
 tggttcctaa atttcgtgat gtggagaaat gtaagacgag aaccgc 406

<210> 28042  
 <211> 380  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-027-Q1-K1-G10  
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 tgggtctgggc actcccttag accttagtac acatgttgaa tttgtttggc tgagttctat 120  
 ggggtgctttg gataagttct ttaggatttc gtatgtgtta acatgacatg ttatctgacc 180  
 cttgttttaa gcagtcgtaa atactactta tgtttccttt tctgtggtag ctttctgact 240  
 tctgagtatt gatgggttga tgtactatgg acatatcttc acacagagct tgagatggac 300  
 tcccccaaga tctctgaaaa tgaagatgtt gggcatctga tcacacccta agaagcctgc 360  
 atccgcatag cataggtagt 380

<210> 28043  
 <211> 459  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-027-Q1-K1-G11  
 <400> 28043

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 gagtatcact aactcgggtg ccatgatcca gccttccttg atatcatttt cctttgattc 120  
 acctccatct ccggtgtttc tagatgtggc atcattagcg gcagatcgta tactgctact 180  
 tgatgcgtac tttagtgttg tcattttcca tggcatgaca attgctcagt ggagaaacat 240  
 gggttatcag aaccaacctg agcatgagca attgcacaa ctattacaag caccacacga 300  
 ggatgcgcag atgataataa aaggtcgatt tccagttcca agactagttg tctgtgacca 360  
 acatggctca caggcaaggt ttttgttggc taagctgaat ccatcggcca catataactc 420

agctcatgat gttgctccag gttccgacat cattttcac

459

<210> 28044

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G12

<400> 28044

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ggggtcgttc gcttgtgggt tcttcttccc tcttggttc ataaagggtg actaatggta 120

gaacaatggt gtcaatctca gtcgt 145

<210> 28045

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-G2

<400> 28045

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ccccttcattg gtccttatca tcgccattct caacgacggc actatcatga ccatctctaa 120

ggacagagtt aagccgtctc cggtgcccga cagctggaag ctgaaggaga tctttgccac 180

gggtatcgtg cttggaagct acctcgctct gatgactgtc attttcttct gggctatgca 240

caagaccgac ttcttctcgg acaaattcgg tgtgagggtc atcagggaca gcgagcatga 300

gatgatgtcc gcgctgtacc tncaagttag tatcgtgagc caggctctga tcttcgtcac 360

ccggtcccgg agctgggtct tcgtggagcg ccttggtctg ctcttggtca ccggttctct 420

gctcgcccag cttgtcgcga ccttnctcgc tgtctacgcc aact 464

<210> 28046

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G3



<400> 28046

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ctggcgctccg ccgcctgcgc gggcgagaag ttcccggcgg ggctgctgta cgcgtcgtgc 180  
gaggacctgc cgaagctggg cgcgtcgtc cactggacgt acgacgcgtc caagagctcc 240  
ctgtcggtgg cgttcgtggc ggcgcccgcg gcggctggcg ggtgggtggc gtggggcctg 300  
aaccctacgg gcgaaggcat ggccggcgc 329

<210> 28047

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G4

<400> 28047

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agcggatggc aatggctctg ctcccgctat tgctctcggc cctcatcgtc tctgctgctg 180  
cgcagtcgcc ggctctgctg ccgtccgcgt caaatgctcc tccggtcagc gcctcggctc 240  
cgcggggctc tgctcgcgca ccgacaacgg cggctctggc gccgcagggc tctgtcgcgg 300  
caccgacgac agctgcggcc tcggcgccgc aggtctctgt agcgccaccg atgacaacgg 360  
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<210> 28048

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-G5

<400> 28048

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ctccctcccc gccgcggcgg cgctcgtgct cctggccctg ctgcgccgag cccagtgccg 180

cgaggcccag ttcgacgccg cggacgccgg cgcggagaac ttcaacacca gcgaggccgc 240  
 cgtgtactgg ggcccctggc agaaggcccc ggccacctgg tacggccagc ccaacggcgc 300  
 cgccccggac gacaacggtg gtgcgtgcgg cttcaagcac accaaccagt accccttcat 360  
 gtccatgggc tctcgcgaa accagccatn gttcaaggac ggcaagggat gctgctcctg 420  
 ctacaagatt cggcgcagga agga 444

<210> 28049

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G6

<400> 28049

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 gaaccgtggt cgggagggag cggatggcaa tggctctgct tccgctattg ctctcgggtcc 180  
 tcatcgtcta ctgcgtcgcg cagtcgccgg cctcgtcgcc gtccgcgtca aatgctccta 240  
 cggtcagcgc ctcggtcccg aggggctctg tcgtgccacc gacaacggct gtctcggcgc 300  
 cgcagggctc tgtcgcgga cgcacgacag ctgctgcctc ggcgccgcag gcttctgtag 360  
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<210> 28050

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-G7

<400> 28050

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 tcggccacga cggcaccgtc tgggcccata gcgcgcgatt cccgctgttc aagcctgagg 180  
 agatggccaa cgtcatgaag gacttcgacg agcccgggtt cctgggtccg accggcctct 240  
 tctcggccc caccaagttc atggtcatcc agggcgagcc cggcgccgct atccgcggga 300

agaagggatc tggatgcata accgtgaaga agaccggtga ggcgctggtg gtcggcattt 360  
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<210> 28051  
<211> 440  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-027-Q1-K1-F2  
  
<400> 28051

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cgtattcttg atgataatcg aagcacaatg acaccagaaa cacttgaatg ctttgtatgc 180  
tgtaaggatt gggttatatga ataccctaat attcaagctt agttgatctg acttccttca 240  
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ccttatgtgt aaaactgact 440

<210> 28052  
<211> 285  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-027-Q1-K1-D6  
  
<400> 28052

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aacatcgtga ctcttgccaa agagcggaaa tagtgctaaa ctgtaccaga acgaaactaa 180  
ggaacttaac actcaaggct ctctcagtcg cttctgaact tcaagcactt gcatacaatc 240  
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<210> 28053

<211> 378  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-027-Q1-K1-D7  
  
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<210> 28054  
 <211> 227  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-027-Q1-K1-E1  
  
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 aacaccaaca aaatccatac tctactaatg tcaaccaaac aattctacct cttcaagcta 180  
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<210> 28055  
 <211> 163  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-027-Q1-K1-E11  
  
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163

<210> 28056

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E12

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gtgcttgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata 240

aaaaaacact aaaataaaaa aaaaattaat tttaaaaaaa cacattaaat tacaaaaaaa 300

caaaataata tctctcattt tttatataat caacacctat tattctccta tttctctata 360

tttttta 367

<210> 28057

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E3

<400> 28057

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ggccgcccgg ggtggctacc gtcgctggga ttgccttcc tcagcttcaa ctgcccggatg 180

gccgtctacc gtcctggga cgaacctac gccgtcgctc tcgtcctgc cgcgtacgcc 240

gccctcgtcc tcctcttcgg ctgcctccac cttctggagc gccgtcggga ccagcgctc 300

aagctcgccg tctggggcct ctccacgctc ctcaactca tgttctcgta caagatcgcc 360

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gcgggattct acgccttctt cgtcgcccg cggag 456

<210> 28058  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E4

<400> 28058

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 tcgctacgag ctcaagttgta ttggactact tcattaccgc gccaaaatgc tcgtgcgtat 180  
 gtctgcaatc tacctcctgt aactgatgaa aatatgttgg ctgaatatct tgccaccata 240  
 tgcttgctaa agaaggacaa atggactggg cgccataaaa tctggatata cagggacaaa 300  
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<210> 28059  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E5

<400> 28059

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 cgctggtttg gtcactacga tcgggccagg gggcgttcct tgtgttgagg gtgttcattc 180  
 cgtgttatct tcccgtcagt catgcgtcct gtcctatgtt aacctacata agaaagtgat 240  
 gtggtgtcca ctttttagtga aactactgtc tgctgttaaa acctggttgg tctcagaacg 300  
 atgattttcg tgtgc 315

<210> 28060  
 <211> 348  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E6

<400> 28060

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cacgggcacg taactagcta gctagctagc agtcgtagaa tgacgatgag ggggtctctct 120  
gttgcggtcg ctctggctgt ggtggtggcc gcggcctgcc ttgccgggcc ctcggggcgc 180  
ggacggcgcg ggcgagtgt gtgcgacgcc gtcggacacg gtggcgctga ggctggcgcc 240  
gtgcgctcg gcggcggagg accccggctc cgcgcctcc ggctcctgt gcatcgcggt 300  
gcacgccatc gggaagcaga accccagggtg cctctgcgcc gtcattgt 348

<210> 28061

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E8

<400> 28061

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cgaccgctac agcagcagcc gtcgtcgtcg tcgccagatc cccaggcctt cgttgaaccc 120  
ttcgccgtaa cgagatcaga tggctgggta tatgtcaaga gggcccaaaa atggttctgt 180  
gtatgtctgc aatctacctc ctggaactga tgaaaatatg ttggctgaat attttggcac 240  
cataggcttg ctaaagaagg acaaaaggac tgggcgtcca aaaatttga tatacagggg 300  
caaagttact aatgaaccaa agggatgatc aacagtcacc tatgaggatc cacatgctgc 360  
ttcagctgct gtggaatggg tcgataacca ggatttccat gggagcacta ttcaggttca 420  
catagctgag tcaaaaagca aagatgcatt ccataacccc acg 463

<210> 28062

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E9

<400> 28062

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tggccactac cacatgttca gtgtctatgt ttggtaatgc ttgctgttga ttacagggct 120  
gcttccgagg gtccactcaa gggatatcatg ggttatgtgg aggaggatct ggtttctacc 180  
gacttccttg gtgacagcag gtcgagcatc ttcgacgcca aggcggggat cgctctgaac 240

gaccacttcg tcaagcttgt ctcggtgtac gacaacgagt ggggctacag caaccgcgtc 300  
gtcgacctga tccggcacat gttcaagacc cagtagaggg ttttccccct gcttctcatg 360  
gatggttgct gcttgtgtat gccgagaata aatgtggatg tcgccagggt catgctgagt 420  
ctggacatgt tttgcacttt t 441

<210> 28063  
<211> 340  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-027-Q1-K1-F1  
<400> 28063

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agaccatgtg ttgctgttgg ctgcaagggc ttcaaggact gagaaccagg acgccatcga 120  
tgctgccatg gttggcatgc ttgctgatcc gaaggaggcc agggctggta tcagggaaat 180  
ccacttcttg cccttcaacc ctgttgataa gaggactgct ctgacgtaca ttgatgcoga 240  
tggcaactgg caccgtgtca gcaaggggtgc tcctgaacag attcttgacc tgtgccactg 300  
caaggaggat ctgaggcgga aggtgcactc tattatcgac 340

<210> 28064  
<211> 422  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-027-Q1-K1-F10  
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ttggcaaggc agccatgaaa cccctcagc tgccggcagg ggagggggcc tcctgggctc 120  
acgaggtcaa gcaggccctc cgtgagaaac tccggcgctc ctacggcgcc ggagctgcct 180  
ccgccacacc ggaggccagg ccggccggcg aaccaagccg tggcgctgag tgccgcggct 240  
cggcgggcga ggaccccata aggagagtca tggttcttggc tccttgggggt cacacataag 300  
aacacatacc ggccggccga gatctgggca tgcaagcttg catggccatg tcttgggtcag 360



tcagatctgc anacaaccaa actgtataaa agaactggag cctgtcttgt aaatcatgga 420  
ac 422

<210> 28065  
<211> 258  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F11

<400> 28065

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aagcagaaaa cactagcgtt tcctcaccag ggcgtccatc ccagcagcca tggctatggc 120  
gtacaagatg gcgacggagg ggatgaacgt gaaggaggag tgccagcgct ggttcatgga 180  
gatgaagtgg aagaaggtgc accgatttgt ggtgtacaag atcgatcagc ggtctgtcgc 240  
tttgctggtg gacatggt 258

<210> 28066  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F12

<400> 28066

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gggcatgtaa gacaatcaag tgctactcat gatgccattg ataaaaatta tagtggcagt 180  
tcagctgaag gtttaaggaa caagagacag aagtctgctg ctcaaagcgc ttcggtaggc 240  
agaagggaag gggtgaggca acgatctgat gccaagcaac atccagatgc agccgagggc 300  
agtacagaac cactcgtgta tgtacctgga agcgatggcg cagctcaagg ttcaatgcaa 360  
catggaactt cggctcctca taccgaaata aaagcgatgg tcaggaacat actgttcaag 420  
gaca 424

<210> 28067  
<211> 191  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D5

<400> 28067

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ctttcatgac gtgactgttg actcctcgca acacaatgtg actgtgactg tcaccgtgga 180

ctcctacact c 191

<210> 28068

<211> 489

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-C1

<400> 28068

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tgcagcactt gtcaatgcac agatgctgaa catgtttgtt gggcgaagag tgcgcacggt 120

tgttcaagtc caacacaatg aagggtggagt gcttgtcggg cagtccaccg atgggcacca 180

gttgtgtgtc aaaagtgcc tggacgtccc cgtatcacat tttatggagg tttatggaat 240

tgctgaaaac agccagacca tccgtgctga agtttgcaca gattttgggt ccaactttga 300

tcccaagggt tttgatgagt tgtgcaagct ggcgagtggc aggttcaagc acctgttcct 360

gtagagataa tcatcgcatg gaggatcttc agccaactga agcttggttg aaactgaatg 420

gttcgccttn taatntaaga tttggctaca tgtntccttc attgcatgga ggaccttcag 480

taccctggt 489

<210> 28069

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C10

<400> 28069

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tgccctttat gcgtcctggt tttttatttg tcattctctg ctgtatcatc ctttctttga 120  
 actatatttt catgtggtac atgatacctt ttgttacctt cgccacagta ctgctcacga 180  
 atagcatttt gagccatttt gctatgcctt ggaat 215

<210> 28070  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-027-Q1-K1-C11  
 <400> 28070

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 ggcatgtatg ggattatcag gcacacgccc atgttcctca ccgaccgcgc ggatcccaac 180  
 aagctcgtgt tcttctacca ggggtcaggg atgcagttgg gggctgaggg gtttactgtc 240  
 ggggttctgt acacactcgt ggggtctcatg atcgtctgtg tgacacactt gttggtgaag 300  
 gtggagagcc tgcagacaca ggccttgcg atgctcgtg tcattggtgt cngtggtgg 360  
 gctgttagga aggtgatcta cttagataac tggaagactg gctatagcat tcataccttt 420  
 ttccgagcag ctggaggtga aattcttgcg ggg 454

<210> 28071  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-027-Q1-K1-C12  
 <400> 28071

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 ctgttcttgc ggaacgacct tctccaggaa ggacaagctt ttgggacatg ttgcgctttt 180  
 ccaaggccac acacctgcgc tccccgtgga agacggggat gtaccagaag gttcagagca 240  
 gcctcaggac ggcgaaccaa cgaatgaaat ggcgaggagc atggtgtata gcttcccgtg 300

tagctcgtct gatggtttat tgaacctcga catgaaaatg gctgatgacg tgcgtgggta 360  
tctcttgccg cttagctttg ataatgcttt ggcgcggttg acgactttac tcggcctgga 420  
tttg 424

<210> 28072  
<211> 169  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-027-Q1-K1-C2  
<400> 28072

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aaaaacgaag aaaatataaa aatccaacta aaaaataaaa acaaataact aacaaaacat 120  
tcaaaacacc caaccataaa ctactaaaca ataaaactaa acaacctaa 169

<210> 28073  
<211> 468  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-027-Q1-K1-C3  
<400> 28073

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cggcaacgga ctacctacgg gctggtggcg tagcacggtg cgacggctcc cttcttaggc 120  
aagctcgacg ggggcaggtc cggctctccc ccatcgatgg cgcgacggtg tttgggcat 180  
gcggccagtg gatggcgcg gcccgaagcg aactctgggc tgagccagct tccctctccc 240  
caagtgacag tgcggtggac tctccccctg accctctccc taggtgctca tggtcagcag 300  
tgccaccctc atcccactcc tggccacctc catttggtgt gtagtggcgc cctcatcccc 360  
ctcccagcct catgttcccc aattgatgta tgtgtgtcaa tttagtgatg atgtcgcttg 420  
cctcatcatc taccggtctc actcggtgtt caaccgaac taggaatg 468

<210> 28074  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C5

<400> 28074

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gggtggaaaa gaacttgaag ctgttgaatc agcagagatt gatgtggaag atgaaattgg 120  
acacggtgat aatgaggata ctcaagctct tgaagactct gatgaggaaa tggattctga 180  
cgaggaacag cagaggatatg atgcccagct tgaagagatg cttgatgaag cttatgagcg 240  
ctttgtaact aaaaagggtg gtgaaataaa gcaagaacgc aagcgtgcaa aacgaataaa 300  
tcctgacgct gatgcagaac tgtagagagg aggtgaagat gatggtgatg ttgaaatgga 360  
tcaagatttt gatgaagatc aagatcaaga ggccaacccc cttctgtttg ccctagatga 420  
agcagagcca ac 432

<210> 28075

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-C7

<400> 28075

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tcccgtaggc cgtggtgccg ccgtcgactg ctgggactgc cctacaccaa gtgccaggt 120  
catcttcggg ccattcgccg gcgacgagca ccaccaggtg tgccaggttg accgagctat 180  
ggacagcctg tggcatcttg gggacgagct ccgcgggcag cccaaggtgg tggaggaccg 240  
ccagtgttct ctcatgacgt ccaagctggc ggagatcacc aggtccaagg gcgagaggat 300  
gaacaccgtc cctgacgcca agcagtggga caagacgtcc taccagcttc acgacgacag 360  
caggatgggc cacatcggcc tcatgaacct ggatctcaag atgaacgagg ctgccgncat 420  
gaagctcccc ttccgtggca tgccgtataa catga 455

<210> 28076

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C8

<400> 28076

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gtgggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaataat aaaaaactat aactatataa taaagaaaaa 180
ttaaatggaa ctaaatgaac gtcaacacac acgtacatga caacgaaaac cctatcgтта 240
gacaacttat ttaaaattga gaaaaa 266
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<210> 28077

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C9

<400> 28077

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gggaaatgaa aaccctttcc aaactagctc taaaggtagt taaactaaac cccattttcc 120
aaagaatttg gaaaatctag ttcattctct aaatcaagat aatttaatac attcatttta 180
tacagccaaa ttaatttaag gtcattcgac tattatcctc cgttacccaa ttggttgtga 240
cgctggttgc ttgcatttca ttttatacac aaattatccc gaaccacgtt caactaaagc 300
acaatttgat gcatcgcaaa aacaaaacat aaaggcatga taacatcttc aatttccaga 360
caatgggtga atggtccttt agttgaggcc caactaatt 399
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<210> 28078

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D1

<400> 28078

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aaagccaata ttaacaaca acaactacta aaaactatcc tacaccaaaa acccaaaata 120
attcttccaa ccattctcca tcaactagca ccaccatttg ttccactttt acctaactat 180
ttacagcctg ttacatcttt tttactagct cctcattcag ccctaggtgc tttatgacct 240
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acagtgatct ctcatgacat ccaagctttc ttacatcacc att

283

<210> 28079

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D10

<400> 28079

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ggatatgtgg aaatcagtaa agataaaciaa gttaacgttt caaggtgtga agttatgtgg 180  
ccgttgcaag gttcctacaa ttaaccaaga cactggaata cctagcccta ctgaaccaac 240  
tgaaactctg cagacatatc ggtcgggtga agtgctgctt cgtagccaca aaaacaaacg 300  
gcaggtgtac tttgggcaaa atgcagtctg caaggaatct ctgtcagcaa atgtggaaaag 360  
aaggatcggc aagggtggggg atccagttaa tgtgacacag tcgttcctt catctggtga 420  
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<210> 28080

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-D11

<400> 28080

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ttgattgata tccaaggac tcaggctgcc ccacctatgg caatgggtcca gccacagttg 180  
cttactgcag cacctgccac atacaatgac cctggtgcca tgcttgctgg attgctatga 240  
gaagtaaaaa aacaaaagcc atagtgtttt gatgtacatg acagatgttg atctaacatc 300  
tccaaaagca tcttgctgcc aagacgaaca cgtggagcaa cgaaagggtt ggcggagtag 360  
tcttcagctg gattctaaac cgagaaaaag ctagattctt ttgggcgggt ttgaggcctn 420

cttcccccttc atggagcagt ccccata

447

<210> 28081

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D2

<400> 28081

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caccggggcc cctgctgctg ccgcactact ccaccgtcga ctgccagatc gacgggtacc 180  
acatccccgc caacacgcgc gtctctgtga acggctgggc catcggcaga gacccggcgg 240  
tctgggagaa gcccgaggag ttcattgccg agaggttcat gcgcgacggc tgggacaagt 300  
ccaacagcta cagcggccag gacttcaggt acctgccgtt cgggtctggg cgccggatct 360

<210> 28082

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D4

<400> 28082

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gaggg 65

<210> 28083

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-B9

<400> 28083

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gatggacgct cgggtggcgg tgctgctcgc gctgctggtc gccagcggcg gcgtccgtgt 180



ctgcgcgcgcc gctggggcca agggcgccaa ctggctgggc gggctgagcc gcgcgtcggt 240  
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 caccaacggc cgggggccct tcctctggga ttcattcgcg cacgtnccaa gaaatattgc 360  
 aaggaatcaa aatggagacg ttgcaatgga tcaatcccat cgcttcaagg aaaacgtcca 420  
 tctcatgaaa agtttgaact ttgatgccta 450

<210> 28084

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A10

<400> 28084

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 aaaaaaaaaa aaaaaaaatt aactattccc ttttttaata accaaaatta tttcaccatt 180  
 aaattacatt taatatatta tttttttata tctattttta caaattttatt taccattttt 240  
 taaaaactat ttaactaata aaacctttat aatccaaaca tttatttttt taaaaaaaaa 300  
 tctaattt 308

<210> 28085

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A11

<400> 28085

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 acttaaattt catactttca ttttgtcagg aaacatgctt caccatataa ctaaccatat 180  
 cctttattag tgtactttgc catttgccct atatggcctt ttctatcaag ctcaacaatg 240  
 ctaattt 247

<210> 28086  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-027-Q1-K1-A12  
  
 <400> 28086  
  
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 cgcctagtaa aggagcgtag gagcatcggt ttgtgtttgt gtcgaataaa taatgtgtct 180  
 gtgtgccgat cccgtgtcgg gttagtgggc ccactgtcgg tgctgatgtg gcctgccttt 240  
 acagcacatc ggtggggctg ggccgtagag ctctgtgtc gtttaaatat atgtgtactc 300  
 tgtactgtac caact 315

<210> 28087  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-027-Q1-K1-A2  
  
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 agaagatgaa caacctaaaa agaaggtag attatggagc ccacggctc aatggatttc 180  
 agtttataat gctaggcggc ccataagca gaggtaccat tacaatgtgg ctgactcgag 240  
 gctaatacaa catatagaaa agggcaacga tgatgggctt tacattagca gcgtgacttt 300  
 ctacgcaaac ctttgggcac tcatcatgga cgcataact ggtttctgtt ctacggttta 360  
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agggacgagt accgtgaccg tatgacgctg gcattctcag tcatcccctc accggacgca 180  
tctgataccg tggttgagcc atacaatgcc actctttctg tccaccagtt ggttgagaat 240  
gcagatgagt gcatggttct cgataacgaa ctctgtatg acat 284

<210> 28089

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A4

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tccaggtct caagtacggc agcagccttc ccgtcgtccg cagagcacca ggagcctcgg 180  
caacgtcagc aacggcgga g gatccggtg catgcatgtg tggccggcct actgctacaa 240  
gaagttcgag acgctgtca 259

<210> 28090

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A5

<400> 28090

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taccctgacc gtatgatgct gacattctca gttttcccct caccgaaagt atctgatacc 180  
gtggttgagc catacaatgc cactctttct gtccaccagt tggttgagaa tgcagatgag 240  
tgcatggttc tcgataacga agccctctat gacatctgct tcaggactct taagctgacc 300  
accc 304

<210> 28091  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A6

<400> 28091

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ctcccaaggt ccagtaacca atgttcttat tgtaacgcca caacgagtaa atctgccacc 180  
gctacaacca ttacgcaaag ttcggtctgc aaatggggag gctgaacggc aggcagtact 240  
tcttcatcgg cctgaaaatg atgtcccaat tcctggaaat aagaccttca tttttatgga 300  
gcgctacttg gatgagcttc agaagcatgg tggttcatcc aggttatttg attttgggcc 360  
gaatgctcag aatggcactc caaaccaaca aggtacagaa tggagagata gat 413

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<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A7

<400> 28092

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cggcgccggc gccggggcg ccggtggcgc ggcggccaag tggcggagcg acgcgtcgcg 180  
ggcgttccag tactacctgg accgctcgac gcctcacgct acggggcggt ggctcggcac 240  
gttcgccgtc gcggccatct acgcgtcgcg ggtctacatg gtgcagggct tctacatcgt 300  
cacctacggg ctcgggatct accttctcaa ccttctcatt ggtttcctct accgcctggg 360  
cgaccccgag ctcca 375

<210> 28093  
<211> 92  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B1

<400> 28093

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<210> 28094

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B11

<400> 28094

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aggctgctaa gaaccccaaca gaactggatg gattgaggaa ggcgcattat cgatatgggtg 180  
ccgctgttgt acagtacctt gcttggctgg ataatacagat gcacgagaac tatcgagctt 240  
ctggatattt cagtgaagata aaacggtcac ataaaaatga acatttagca accaaactta 300  
ctgacgcgctc tgtgagtgac aaacttgaaa gctatcgtgc aacataagag aactttaaag 360  
gtttgagctt tctacaatc tcattctgtgg gaacaaatgc agcagctatt cactataaac 420  
ctgaatcaag cacatgttgc gaaatgga 448

<210> 28095

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B2

<400> 28095

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ggctgctact gtggtgcggg tggctactgt ggtggtggtg gcggtactg cgggtggcaac 120  
cgtggcggcg gctactgcaa ctctactgg aactggagga actgagcggg ggtgcccgt 180  
cggccaagtt atcctgttgc ctaccgtgat gtttacccta gtccagatgg tttatcttcg 240  
ttcgtctcga ttgttgttgc ccattctgtg ttatgattgc aaggctcttc tgtgtcagct 300  
gt 302

<210> 28096  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 28096

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gccctgtcat acttatctga cggcactaat gataagatcc aggctgtgat tgaagctggg  180
gtttgcccc ggctcgtgga gcttctcctc catccatcac catcgggtgct tatacctgct  240
ctacgaactg ttgggaatat tgtcactgga gatgatttgc aaactcagtg tattattgat  300
catcaagctc ttccccgcct cgtgaatctg ttgacgcaga accacatgaa aagcattaag  360
aaagaggcat gctggactat ttcaaattt actgctggaa acanagatca gatacaggct  420
gtcataagtt gccgtatcat cgctcctttg t                                     451
  
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<210> 28097  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-027-Q1-K1-B4  
  
 <400> 28097

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gggtgcgcgt ggaggacacc ctgctgctcg cgcaggttac aaagttcaca tgtggtggat  120
ttgctgtggg catttgcttc agtcacttgg tgttcgatgg gcagggtgct gcacaatttc  180
tgaaagcggg ggggtgagatg gctagggggc tccctgagcc atcgatcaag ccaatctggg  240
ctcgtgatgc catccccaac ccacctaagc cacccttagg tccgccgccg tcattcaccg  300
cattcaactt tg                                                         312
  
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<210> 28098  
 <211> 401  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B6

<400> 28098

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ggtggaccgg cgtgacttgg gcaagatgaa gcacgggtgc gagcattacc ggcggatgtg 120  
caagatcgtg gcaccgtgct gcaaccaggt gttcccctgc cgacactgcc acaacgagggc 180  
tacggcttgc ggagatcggc atacaatatg tcgtcaggat gttgaaaaag tagtttgcct 240  
actctgtgaa aaaaaacagt cgggtgtcaca agtgtgcata agctgtggag tcaatatggg 300  
agagtactat tgtgatatat gcaaattgta tgatgatgat acagacacag ggcagtacca 360  
ttgcatcgac tgtggatatg cagggttggg ggcaaggaaa a 401

<210> 28099

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-A1

<400> 28099

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agctggccac caaggcggcg cgcaagtctg ccccggcgac cggcggagtg aagaagcccc 180  
accgtttccg ccccggcacc gtcgcgctcc gggagatccg caagtaccag aagagcacgg 240  
agctgctgat tcgcaagctg ccgttccagc gcctggtgcy tgagatcgcc caggacttca 300  
agaccgacct tcgcttccag agtccgctc tcgccgcgct gcaggaggcg tccgaggcct 360  
acctcgtcgg gctcttcgag gacaccaacc tctgcgccat tcacgccaag cgcgtcacca 420  
tcatgcc 427

<210> 28100

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-G3

<400> 28100

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aaccaagtca tcgaggaggg cttgggcaag cacaacatca tctgcattga ggatcttggt 180  
cacgagatca tgactgttgg cccacacttc aaggaggcga acaacttcct gtggccattc 240  
aagttgaagg cgccgctggg aggcctaaag aagaagagga accactatgt tgagggcggt 300  
gatgctggta accgtgagaa ctacatcaat gagctcatca aaaggatgaa ttaggttcac 360  
gatcgagctc attgataccc tgtgctctaa gtgactngtg ctantcctat tttatattag 420  
aaaggtggat cgntgatgaa tatgcatgca agtttga 457

<210> 28101

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-G4

<400> 28101

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cttctttatc accctgcccc agtggcgccg ctgaactcat caccgacca caaccacagg 180  
agtaaccata gcacagattg ccaactcctt tatgcaacta ataatggatt ttgttttgct 240  
tctgaggttt atgaataagt ggtagaaaaa tggagcattt agttaagggtg ccccttttgg 300  
acagatgttg ctttttctct ctctctagta tctgatcggc cgataaaacg agtgcattcc 360  
acccggacga taatgcgaga gtaggattca gtttaattct 400

<210> 28102

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-G5

<400> 28102



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gatggccaga tcccagcgcc cctcaccttc ttcaacccgc cgctgcctt cccggagcaa 180  
cccgcgcagg cacctctggt ggatgcggtg ggcttgacgg cagctgcggg gcttgggtgg 240  
aggcagccga gggagcagga actgcttggg gaaaactccc agatgtcgtc cattgatttt 300  
ctgcagacgg gctcggcagt gtcgacggtg ttggcgctgt ctctggagga ccggcgccac 360  
ggcgggcgcg gtgctgggaa ctccctctggc gattcacgcg tgctcctgct gcccatgctg 420  
gacgatgaca tctnacgcga ggtcc 445

<210> 28103  
<211> 459  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 28103

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ggacatctac gtcgttggcc tcaacatcac aacgcaagtc agcttcacag ataaggatct 240  
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catacttnca tggacatggt gctgaagaag tggaaactca 459

<210> 28104  
<211> 443  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-026-Q1-K1-G8  
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cggggggtca ggccgcgcg gtccccctcc tgctccgcaa caccgcctcc ctgcggacct 120  
 ccgtctccgt ctctgcacg ggctcccgcc ggagctgggt ggcggcggcc acggcggagg 180  
 gggacgagac ccgcggcttc gacaaggtgc ccatggacac ccccggcgcg taccgcctgg 240  
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 cctccatgcc gtccccggcg gtgctcttcc ggaccaccga ccgtcgtcac agccaatgtg 360  
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<210> 28105  
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 <223> Clone ID: LIB3067-026-Q1-K1-G9  
 <400> 28105

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 aggatgctag aaaaaactca aagatattta agttaaaaat ttttaattctt ggatc 115

<210> 28106  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-026-Q1-K1-H1  
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 cccacaaaat cctgcttctg gacaaacggg tgatattgga caagtagaga atggacttgc 180  
 tcagcctctg ctcatggatt ccgtagataa acaaaatgaa gatgaagatg aagaagttga 240  
 tgaaagtga gaagctgcag atgattcacg caagcctgca acatcaattg gctcagcata 300  
 cagactgctt actccatcag taaagggtcca gttgttgata tacttcatgc tgaaatacgc 360  
 aatggagatt ttgctttcag agtctagtgt taccactaat cactatntca gttggaacac 420

atgcg cattg gcaat tttttc tagc

444

<210> 28107

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> . Clone ID: LIB3067-026-Q1-K1-H10

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gtgctgcgggt tttttctaga aatataatgc gttttaatta ctagttggag ggagacctgt 120

cttgttcaat ttgttcatgg accanaagca ataatctatc tgttgttagc tggattgggtg 180

ttatgcgatg tcccctaccg tgtgtcccag aatctacttg gtgattttat cccagtgttg 240

ttaatcaagc ttgtgtgatt gttaagt 267

<210> 28108

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H11

<400> 28108

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cgtcgtcgaa gcccgccaaag tccggcggtg gcaagcagaa gaagaagaag tggagcatgg 120

gaaagctaaa ggagaagggtg aacaacgcgg tgctgttcga ccaggctacc tacgacaagc 180

tgctctctga ggtgccaag tacaagcaga tcacccctc catctatcc gagcgctca 240

ggatcaatgg ctccctgggt cggagggcta tcaaggacct gatggcggt ggctcatcc 300

ggttggctc ggttcaactca agccagcaga tctacaccag ggcaacaaat acctaaggat 360

gggattccct tgtttgcct ctctgtagga gtcgtcttc tttagaacag ttgccatctc 420

tgtcaagagt ttgctaatgc tatgttagat gagtttagtt tgg 463

<210> 28109

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<212> DNA

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tctgcttggt ccggttctgt cacgaaagat catcttcggg tcgagggttg acagaatctg 180  
gggcattgac ataccaccag attctgtcaa cccttaaatt cagagatact tg 232

<210> 28110

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H2

<400> 28110

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ccaatatact agcacacctc acgtataact ggatccctga cacatgacat cttcgaagat 180  
aactcaagt gacacaaact tcacgctctt cagacgacga gaaccgacac ttctaataaa 240  
cacccttagg ctccccctgc tcataccgac tgatatacct atacaccata ctcacatga 300  
tcgctgggaa cagcac 316

<210> 28111

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H3

<400> 28111

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acgacgcctt cgattctgat ctgcggtcgg ctgcacctat agagaaccgg agatgcatca 180  
gggcgactgc acggaggctc aggtgacgtg ggaggaccag cagaacatca accgcttcgg 240  
tcgctcaac aaccgccttc acgagctcca ggacgagatc aagctcgca aggagacgaa 300

tgagaacctt gatgatgctg ggaatgaact catcttgctg gatgaagacg ttgtacgctt 360  
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<210> 28112  
<211> 440  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-026-Q1-K1-H6

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atgggaaggg acctgagggt ccacttcaag aacacaagg agacagcttt tgcgttcgc 180  
aagctgcctt tgaccaaggc taagcgatac cttgaggatg ttattgctca caagcaggca 240  
attccttcc ggagatactg tggagggtgt gtcgcaccg cacaagcaaa gtctcgccac 300  
tccaatgggc aggtcgctg gcctgttaag tcagccaggt tcatattgga tttgctgaag 360  
aatgctgaga gtaacgctga tgtgaaaggc ttggacgtgg acaacctcta tgtttcacac 420  
atncaggatga accaagccca 440

<210> 28113  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H7

<400> 28113

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ctacttcggg tcttgattcc cagaaccggt tatttggtca atccgtgaag ccctttgaag 180  
tgaatccgac caaacgcgtg aatcttgccg cgtaaagagt gaatgggaca atgtgtgtat 240  
gcctccgggt aagccctgtg gtaccagat tgtgtcctcg cgccagttta ccctttaagc 300  
tcagattttg ggtgtgccct gtgctctggt ctgtgctcta gatattgtgt cacagcacgc 360

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372

<210> 28114

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H8

<400> 28114

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gaccgtgcag gtgccgcgcg ggcaggtgga tctgatcgac ttcacgcact ggaccggcgt 180

cgagtgcctc aaccaggact cgtcccacag catcgtaac gcgctcaagc agagtttgag 240

agacgacgag gggctgtacc tcgccagcga ttcggacgag cagctgctga tctacatccc 300

cttcacgcag gtagtcaaac tgcattccgc gctattcaaa ggtcccaggc aagatggccc 360

caaaacagta aactcttctt caatcaagag catatgggtt tcagcaatgt caatgac 417

<210> 28115

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-H9

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tcgcctccga ccaggcgtg ctgcgcgacc cggccaccgc cgcgcaggtg ctgcctaca 180

ccaacagccc cgccacctc cagaccgact tcgtcgccgc catcatcaag atgggtgcca 240

tacaggtgct cacaggcaca gccggcaccg tccggaccaa ctgcagggcg gctagctagc 300

tcatccatga ttacgtcta cctgtagact catgtgctta tataaaatca tacgacgaaa 360

ctgtacgtac ggcgtagagt ggtgtggcga ggtccaatga ttcagattgt acgtacgtgt 420

ccatcgatcc aactgtagtt gtgtacgcag tacagtacgt gctagct 467

<210> 28116

<211> 355  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-026-Q1-K1-G2  
  
 <400> 28116  
  
 aataaaaaat aacataaaaa taatcaataa aataaaacaa aaaatacaaa ataaattaaa 60  
 aagggtacag agaatctaataa aaagaagata aaaatagaaa aacaaaatac aaaaagacaa 120  
 aaaaaactaa aatataaaaa tatggggcgc ccattttaag ttctccatg tttacgtgct 180  
 tggacttact cagtatatca tcttttatgg tgaacctaat ttttaattcta atgccctctc 240  
 tttaaaaact tgatacctgg taaaccctt ggttcacccc attttttccc ctatcagtaa 300  
 ataccttttt tataagctga cgttttctct aaaaggccct ctcttttggc ccttc 355

<210> 28117  
 <211> 467  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-026-Q1-K1-E9  
  
 <400> 28117  
  
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 gccggcttac ggaagcttcc caggtcttcg tcaggttttt ctccggcaac gagcacctcg 120  
 cacagatcgt gaacctccac acctcaacga tagatggcgg ggttcagaag ccttgcaccc 180  
 aagaccagga acctggtggt ggccggggga ctgtctgect tcgtgctcgg ggtctactac 240  
 tacaccatga gagcgggtggg aggcacggac gagctacagg tggcgatcga caagtttgag 300  
 gagacgaaga agcaggatgc tgctagaaac tccagctcca gcgcaggagg atcataattc 360  
 ataagcacgc ggacacgcnc tggatctgct gcaagctgag tggctgacat ggtacgacga 420  
 cagtcacgtc gctcagtagg ccatgaccat gcgttctgct tgtactg 467

<210> 28118  
 <211> 361  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-026-Q1-K1-F1

<400> 28118

ctgatgcgca caccgtgttt ttcttagcag gcttgtactt tggagctatt tatctgtgcc 60  
cggacagggga tgatgcttcc attatacagt agagtagtgt tggtaatatg tacacattgt 120  
tgagaacggt gtacttgagg cctgttggtta ttatacggca atagtagatt gtttgcgggca 180  
agcctcggtt tttgtgcgtc taattctctg acttgcagaa ttgcggtggc aaatacccat 240  
tgccctccaa gttgtgcgtt agcgtattta tccgtagttg acagcaatga acatattact 300  
actgctttct gtattttcta ttaacgcagc cacatagttt attgggtttc catattttca 360  
a 361

<210> 28119

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F10

<400> 28119

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acaagatccg caacgccaaag ctggttcttc ttggagatgt aggcgctggc aaatctagct 120  
tggttcttcg gtttgtcaag ggacagtttg ttgaattcca ggaatcaaca atcggagcag 180  
ctttcttttc ccagacctta gcggtaaatg atgagactgt taagtttgaa atctgggata 240  
ctgctgggca agagaggtat catagcttgg ccccatgta ttataggggt gcagccgccg 300  
ccattggtgt ctatgacatc acaaatccg ctttcttcac ccgtgccaaag aaatgggttc 360  
aagaacttca agctcaaggg gaatccgata caatagtggc tcttgcttgt aacaagggtg 420  
atatgctaga tgcgaggcac gttgc 445

<210> 28120

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F11

<400> 28120

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gcggaatcta cggcgaggac ggtgaaggat gtcaaccgc acgagttcgt caaggcctac 120  
 tccgcccacc tcaagcgctc cggcaagatg gagctccctg agtgggttga cattgtgaag 180  
 actgcgaggt tcaaggagct tctccttat gatcctgact ggtactacat cagggctgca 240  
 tccattgcaa ggaagatcta cctaaggcaa ggcacggtg tgggtggctt tcagaagatc 300  
 tacggtggcc gccagaggaa tggctccgc ccaccacact tctgcaagag cagtgggtgct 360  
 gttgcacgca acatcctgca gcagctgcag attatgggca tcatcgatgt cgatcccaag 420  
 ggtggacgcc tcatcaccaa ccagggaagg cgtgatctgg a 461

<210> 28121  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-026-Q1-K1-F12  
 <400> 28121

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 gggttcgtca ccttctccac ggaggaggcg atgcggaacg ccatcgaggg catgaacggc 120  
 aaggagctgg acggccgcaa catcacgcgc aacgaggccc agtcccgcgg cggccgtgga 180  
 agcggcagcg gcggctacgg tgggtggcgt ggaagcggcg gctactgcgg tggcgggcgc 240  
 cgtgatggcg gcagcagcta cggcgggtggc ggcggcggct acggtggctg cagtggctac 300  
 ggtggtggtg gtggcggcta cggcgggtggc aaccgtggcg gcggctacgg caacttcgac 360  
 gggaaactgga ggaactgagc ggt 383

<210> 28122  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-026-Q1-K1-F2  
 <400> 28122

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 gcgccacacc ttttggacgg gacggggctt gcttgtgtgt ttaattttgt acctaggctg 120  
 ggaacatgtg tttggaggga tgggtgctgct tataaacatt ctttatacct tgtattgtac 180

acgtacatct acaagatgcg agtcaacccg ttgggttgaa gaactctccg agtggtttct 240  
 tacattgtgt aagttttttt tttttctttc agtttctgca aaaagttctg agctctgtac 300  
 atacattttg gctaagaagt caacctagtt atggggatat tgtgagcaat tataagtcgg 360  
 ttcacgcaga aaa 373

<210> 28123  
 <211> 460  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-026-Q1-K1-F3  
 <400> 28123

gccgacaact ctctaccgtc cgagacccca agcaccagcg cggcggcggc ggcggcggcg 60  
 acgcatggct gtcggaaga acaagaggat ctccaaggga aagaagggtg gcaagaaaaa 120  
 gaccgtcgac cttttctcta agaaggattg gtatgacatc aaggcaccgt cgggtgttcag 180  
 tgtgcgcaac atcggaaga ctctcgtatc caggacacag ggtaccagga ttgcttctga 240  
 ggggtctgaag cacagagtct ttgaagtttg cctagctgat cttcagggcg acgaggatca 300  
 agcttacagg aaaatcaggc tccgtgctga agatgtgcag ggcaggaatg tgctcacaaa 360  
 cttttggggg atgaatttta ccaactgataa aatgagggtc ctagtgaaga aatggcagac 420  
 attaatcgaa gcccatgttg atgtcaagac aaccgacaac 460

<210> 28124  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-026-Q1-K1-F5  
 <400> 28124

tcgggaaacc ctagtccgtc atatctcacg atccactcta gcaccaatcc tagggaaggt 60  
 gaggagcgat ggctctcggc gtggtgtcgg cgaagggcgg ctcggtcggc ggcatgaaga 120  
 aggggtcggg ttctttaagg atggtcttct tatagccagt taaggacttg ttcacggaag 180  
 tcgtctcttt ttgtacgttt aagtatgtga ctttcagaat tgccgcgtca aatacccatt 240  
 gccctgcaag ttgtgcatta tcgtatttat gcgtgattga ctgcaatgaa catattacta 300

ctgctttatg tatttgctat tgacgcatgc gcatagttaa ttgggtttcc atattttc 358

<210> 28125  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F6

<400> 28125

ggttcatcga agcgaaggga acttgcgga agagcacctc ttgtgtctc aaccctgcaa 60  
gctatcagcg gactaggtga ctacagcttc gagaagaacc ttgccagtt ctttcctctt 120  
ctcgtctggc tcataagctg cgagcatggt tctagtgaag tacaggtggc cctgagtgat 180  
atgttcagca cttgggttgg cccactcgtt ctccagtcct gctgatgctg aacatcatgt 240  
tatacatagt agtatacatc ccattgtgtt cctcctttcc tccattatgt tatgctaate 300  
ttttagtcgc tgggagttca tattgttgtg ctgaactgat catgcagatc aaattttcgt 360  
tgacgttatt ttctgttcg tatcgggagg agtgtatgtc actatagaga actgaattat 420  
gtacggtagt ttagctaaaa ttgtgcccac tctgt 455

<210> 28126  
<211> 141  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F7

<400> 28126

tcttccttcc actcttctct cccactcttc ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaagaaaa aataaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaataaa aaaaactaaa 120  
aaaaacacta atatctcaaa a 141

<210> 28127  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F8

<400> 28127

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 aaggggactg gagagagcat caatgagaag gaccgctgcc cagggtgcaa gggtgagaag 120  
 gtcgttcaag agaagaaggt tcttgaggtt catgttgaga aggggatgca acacaaccag 180  
 aagatcacct tccttgggtga agctgatgaa ggcctgata ctgtcactgg agacattgta 240  
 ttcgtccttc agcagaagga tcaactccaaa ttcaaaagaa agggatgaaga tctcttctat 300  
 gagcacacct tgtctctgac cgaagcacta tgtgggttcc aatttgttct tacacatctg 360  
 gacaacaggc agcttctcat caaatcagac cctgggtg 397

<210> 28128

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F9

<400> 28128

aaaaaaaaaa aaaaataaaa aaaaaaaaaag aattaactaa aaaaaaaaaa aaaataaaaa 60  
 aagagtagac atac 74

<210> 28129

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-G1

<400> 28129

acgcgggagt ccttgtctat cttgagcatc gaatccttgc tgtagtggtt atcagtctgc 60  
 gactcagcat ggcgtgctgt tgatatctga caatagcaat gtgtggatgt gttgtgttgt 120  
 gttgtgagac tcagatgtaa gctttgtgga gttcatttcc acgtgtgtgg gaaaagtgtt 180  
 tggtttgaat cgaacaataa tagtgcatat aataatataa cttgcagaat atgaaaaggg 240  
 aaatacccat tgacctccaa gatgagcgtt agcgtcttta ttcgtatgtg acagcaatga 300  
 acatatttgt act 313

<210> 28130

<211> 434

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-026-Q1-K1-G11

<400> 28130

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 atgcgcacca ttggattcaa tgttgaaact gttgagtaca agaacattag cttcaccggt 120  
 tgggatgttg gtggccagga caagatcagg cccctgtgga ggcactactt tcagaacacg 180  
 cagggactta tttttgttgt agacagcaat gataggggaac gtgttgttga ggctagagat 240  
 gagctccaca ggatgctgaa tgaggatgag ctgcgtgatg ccgtgctgct tgtatttgca 300  
 aacaaacaag atcttcccaa tgctatgaat gctgctgaaa ttactgacaa gcttggtctg 360  
 cattctcttc gccagcggca ctggtacatn cagagcactt gtgctacatc tggtgaaagg 420  
 ttgtatgaag ggct 434

<210> 28131  
 <211> 371  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-026-Q1-K1-G12

<400> 28131

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 ccggggctac cagatcctaa tggggcttct cctgttcacg cccattgctt tccttgccctg 120  
 gttcccgttc gtgtccgagt tccaaaccag gatgctgttc aaccaggcct tcagcagaag 180  
 tctgcagatc ttccgtatcc tgggaggaca caagaaagac cgaaggacgc ggatcaagga 240  
 gtagtagggc tgctgattga aggtccgtct atcgggagtt atgtcgctcct ggagcgggtct 300  
 atcaggttca gagaatatta nggtccgtat gtatgtatgt gtgtgtcgca cctagcacca 360  
 gtagtatgta t 371

<210> 28132  
 <211> 459  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-026-Q1-K1-D11

<400> 28132

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aggaatgacc caaggaagtg ttaatggaaa aattgtgaac caaggcagtg aatcaacttt 120  
ggaactctta gggacatgga ggaggaaatc gaagaggagg ttgacaaggt tcttgcttca 180  
gtagcagggg agactgcctt ccagctacca gatgctgcca gaacacagaa gatacatgag 240  
gcttcaacaa gcagggttcc agaagagcga caagctgttg cagaggggtgc tgatgacgac 300  
gaggaagacc tagaagagat cagggcacgg cttgctaaag tgaggctgta aatcatatac 360  
atatctgagc tttctaacct ggtgagccca tggctcaaca aatatgggtgc caaaacccgt 420  
gtattgtgaa ctgagtcgat gacaatgcan natttttta 459

<210> 28133  
<211> 317  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D2

<400> 28133

agatatcttc tgcaaaaaga gggcacttga agttcgccat tcaatctcaa gagttcttta 60  
ggactctgca acggtactac agtaatgcct atatggatgc ttacaaacaa gcagcgataa 120  
acttatttct aggatacttc caaccgcagg tgggaaaacc tgcactttgg gagccagaat 180  
ctggtgacga gcatgtactt gatgacgaga caaggtaagc tagcaatata tacctatgct 240  
tgaacttaca gggttaagta tgctcctaataaaaagaacaa tatacgcttt ttaatcgaca 300  
acatttgaat aatatgt 317

<210> 28134  
<211> 382  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D3

<400> 28134

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 gtgcgcacgc agctgcggcg gccagtgcc agtggatcgg cgtgcgcgcg tggcggggta 120  
 gtcgctcgcg cgcgtacatg gcagtatgac acgggatttt gctgttcagt acactacggg 180  
 tactggcgtc tctctctgtg tgtgtgtgtc gtacgtagcc cggtagctat ctagcagtga 240  
 ctgtcgcgcg gacttgtacg gtgcgggtctg cgagtgcggt gggctaaata aagtgtgcgt 300  
 cgggtggtaa tgggtggggg gcccggtgtc agtggcgcag tgcccatgc ctgccgcgga 360  
 tgcagcttgt tgtgtcttgt gt 382

<210> 28135  
 <211> 199  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-026-Q1-K1-D4  
 <400> 28135

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 ggcaattgag aaggattgca tgagccatcc ctataattat gtcattcatg ctgtgatcgt 120  
 attagatgat gaaacaaaat tcgaaccttc cgctgggtctg ttgttgcaac agttcatatg 180  
 caatagggtt ttaatgggt 199

<210> 28136  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 28136

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 aaaggaagaa cgcgtcgcg agccatgggg cttggccttg gcgtgcgggc ggccgcccttc 120  
 acgtacgcgg cgcacgcact ggccgtcgcg gcggcgccca tggttctcgt ctgggtccatc 180  
 cagttccgcg gcgggctcgc catcgagtc accaacaaga acctcatctt caacgttcac 240  
 cctgttctta tgcttatcgg ttatgttatt atcggcggtg aagctataat ggtgtacagg 300  
 gtacttccaa catcgaatca tgacacaact aagctgatcc atctaattct ccacgggatt 360

gcactngtcc ttggtgcggt tggaatatac tttgctttca aaaatcacia tgagagtggg 420  
attgccaatc tttacagcct gcactcttgg a 451

<210> 28137  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D7

<400> 28137

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gggaggctct tcaagcttat gttctataac atggaggaat ccagtttcag caaaccaact 120  
gtcaaaagac ttttggagga cgagctacga aagctaaaac agctgaagct tocaaagtat 180  
gaggttgaga gaatattagc tgacctggga catgggtgct gcctggacaa aagttcaacc 240  
cataacagca aagcgaagaa gggagaccaa aatcacatca gaggtatcac caccacggct 300  
gtcccatctg gatcttttga tccactgct tccaactgca tgaaagaagc agaagacaat 360  
gagcttgaat ttgccttggc agtattctta ggacggattc atagaaattg caccaataat 420  
ggggagttat gtacggagat gaaagcccta at 452

<210> 28138  
<211> 276  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D9

<400> 28138

aaaaaaaaa aataatatac aaacaatata ttatcataaa aataataaaa aaaaaaaacc 60  
ctggtggaga accaaaaaaa acttaataac taaaaccctc ttaaaataaa aatccaacct 120  
ttcaaaagcc aataatcggg attatcattc acacattcaa attcctaaat tacctaactt 180  
atccgaccat gtcaccttc ttctaccaca aatcaatgat ccttcccca ttttataaat 240  
ttactgacat gctaatttc acactttccc aaatta 276

<210> 28139  
<211> 442



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-026-Q1-K1-E1  
  
 <400> 28139  
  
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 agaaagttgc tgctgcttat gattgcaaaa ttgtggaagg tgttcttagc catcaactga 180  
 aacaatttgt gattgatggt aacaaagttg tgctcagtgt ctccaatgct gatacaaagg 240  
 ttgatgatgc tgaatttgaa gaaaatgaag tatatgcaat cgatattgtc accagcactg 300  
 gggaggggaa gcccaagtta ttggatgaga aacagaccac catctacaaa aagggccgta 360  
 gacaagaaat atcacttgaa gatgaaagcg tcaaggttta ttttcagtga gatcagccag 420  
 aagttcccat catgccttta ct 442

<210> 28140  
 <211> 464  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-026-Q1-K1-E10  
  
 <400> 28140  
  
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 tgaggagcat gctgagaagg caaagacctt gcctgagaac acgagcaatg agaacaagct 120  
 gatcctatac gggctctaca agcaagccac ggttgagat gtgaataccg atcgtccggg 180  
 catattctac caaaaggaca gggccaagtg ggatgcctgg aaggctgttg aaggcaaadc 240  
 gaaggatgag gcgatgaatg actacatcac caaggtgaag cagctccagg aggaggtgc 300  
 cgctcttaa aagtctctta atagtgttg caaacagcta tttgtcagat gagctttgtg 360  
 ccatttcctc attagaagta tatcattcga tccattgggg atctgtgaac catgtacctg 420  
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<210> 28141  
 <211> 193  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E11

<400> 28141

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aatgcctcaa tctgagccct tttttgggtt ttttctctg caaatgtatg tttctaaggt 120  
agtgtgttgt taatgttaat gattctacac ctttctgtga cagttttgcg aataagagga 180  
gcacctcatc ctt 193

<210> 28142

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E12

<400> 28142

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agtggcgat tcaaaaagga ttttgtcgta tactaacaat gcccatgcat gtttactccg 120  
taagtgcatt cctaatactg aagattatcc aggatactac gagcataaca ggattcatag 180  
ggcaaaccac atgccgattc tacaacgggc ttaaaatccc cgacattatc aacgatcaac 240  
ctttacccca acctgctctg a 261

<210> 28143

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E2

<400> 28143

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cgttgctctt gacatgggac taacacacga 90

<210> 28144

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E3

<400> 28144

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ggatctgagc agcaccaacc tagtagtgac tattttgata gtggagtaga tgaccttaaa 120  
aaccacaac attacattgt gtgggatatg aatctgaata ggcacatcta tcttgagttt 180  
gtagtctccg ttaaattgcc tctaaatct gatgattact tcgtatggca agacgactgt 240  
cagaattcat gtgatctgtc actggttttg atatccagtt c 281

<210> 28145

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E4

<400> 28145

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ggcggcctcg cctggggccac ggacgaccac tccctccaca acgccttcag cacctacggc 180  
gaggtcctcg agtccaagat tatcctcgat cgggagacgc agaggtcccg cggcttcggc 240  
ttcgtcacct tctccacgga ggaggcgatg cggaacgcca tcgagggcat gaacggcaag 300  
gagctggacg gccgcaacat caccgtcaac gagggccagt cccgcggcgg ccgtggaggc 360  
ggcggcggcg gctacagtgg tggccgtgga ggcggcggct acggcgggtg cgggcgccgt 420

<210> 28146

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E5

<400> 28146

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gcatctacta ctacagatcc acatgacttc tttaaaccct tcatcgtaac gagatcagat 120  
atattattat atgtcaagag agccccaaaa tggttctatg tatgtctgaa atctacctac 180  
ttgaactgat gaaaatatat tgtatgaata tttttgcacc atatgcttgt taaataaaga 240

ctaatatgac taaatcgatc aaaaatttat

270

<210> 28147  
<211> 384  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-026-Q1-K1-D1  
  
<400> 28147

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tgactacccg gacgccgacg caggtggcta gccacgcgca gaagtacttc atccgcctca 120  
actccggcgg caaggacaag cgccgggtcca gcatccacga catcaccacc gtcaacctcc 180  
ccgacgaaga ccgcggcaac gcgccaccgt ccgcgggtcac caccactacc aacctctccg 240  
tcgccctccc ggacatgaag cccttcattg cgccgctcca agacgcgctc ggcgtgtcgc 300  
acctctacgg caacgtgaag ctggagccta agagctcgct ggtggccggc ctgggcttca 360  
acgactccgt cctnctgatg cact 384

<210> 28148  
<211> 120  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-026-Q1-K1-E6  
  
<400> 28148

ctctagtaga actgtagaag atgtagttat cagtatctct tttgtattat tggccacgt 60  
ttactttctca atcgaatatt tatgcgaggg atgtttgtca acgccttagg cttcatcttg 120

<210> 28149  
<211> 415  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-026-Q1-K1-E7  
  
<400> 28149

cccacgcgtc cgcagtcggc taggtaatct ggtggtacga cgacatggcg gccaccagca 60

gcgaagtcgt cgctcgctctc gagctcggcg cagcgggcag ctgccgcact gctcgtggcc 120  
gccgccgtgg cgggtgtccgt cctgggtggtg ggcgcggcgg cgggtgtgca catgagcaac 180  
gagcagttca tgtcgtgccg gcccgcggcg gccaaagacga cggacccgcc ggccgcgccg 240  
tcgcaggcgt gctgcgacgc gctggcgggg gcggacctca agtgcctgtg cggctacaag 300  
aactcgccgt ggatgggcgt ctacaacatc gaccccaagc gcgccatgga gcttccggcc 360  
aagtgcggtc tcgccacgcc gtccgactgc tagcagtgtg ctagccaagc caagc 415

<210> 28150  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B5

<400> 28150

cgtgcatgtg ctcaagagag catcgcttat tgtcttcac ctcctctctg ttatcttctg 60  
cagtgtctctt acgatgggtg tcgttggaac ccagaagagc atttcgatga tcaacaatca 120  
cgaatatatg gggttcctca acttctgcga gtaactcaaa caccatcaga ctgtcgatcc 180  
atccgggaga atccaggcca atgcctaatt gacctcatct cctcaaaaat ctagaagaat 240  
aaagtcgccg agtatgtgca caagttagct cctcgccaac atgtgcgcat ttagaccgac 300  
agagtcgctg tagtgaattc agctcgtgtt agctcctggc taacgagctg accatacggc 360  
tttagttttg tgaagtgggc gcgatttctg catgtcatgc atgtgttagc tcctggc 417

<210> 28151  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B6

<400> 28151

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agaacgggta ccaccaccgc accgagatga acaagaaagt ttacaagatc ggcaaggctg 120  
gacaagagac ccacgatgcc tccacagagt ttgacaggac cgagaaggac atcactccca 180  
tgggtggctt cccccactat ggtatcgtga agggtgacta cctgatgatc aagggatgct 240

gtgtgggtcc aaagaagagg gtggtgaccc tccgccagtc cctcctgaag cagacttccc 300  
ggctggcgct ggaggagatc aagctcaagt tcatcgacac atcgtcctaaa tttgggcatg 360  
gtcgcttcca gactaccgat gagaagcaga ggttctttgg taagctcaag ggcgtaggtg 420  
ctgcggtgca tcgacaagtc ccatttgtca aaat 454

<210> 28152

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B7

<400> 28152

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caggccagag aaaaaagcat cgaatttccc cccccgttaa ttggcctgag ccctcagccg 120  
tctaccagca gcagctagag gcagacaagc taggttttac tgcttcattg agcacaaaga 180  
tccgctgacc tcttggtaaa aatccaacct tttttgtatt gttttcttct gggaaaacct 240  
ccttggtgtg cataaactgc gtagtacact ctacaatttc tggagaggaa gctgagaact 300  
actatccata tctggcacga cccttgtaaa gaaccatggc tggttcactg ccatgaagct 360  
gcttgaactg gaggcaccta aatgctgtgg attgttccta tgcagatgat cggatcagtg 420  
gtttcaggct ccgggggggt cgatcagatg 450

<210> 28153

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B8

<400> 28153

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ctgcggcatg agcggttttt accctggctg cgataaccac ttctgttcat gtcaagccga 120  
aaggcgtctt ccccatctgc tccagtctct gccgtcctat gatgggctgc tcgccgtcat 180  
ctcatgcttt catgatgatg atgcctccga acatgatggg cgtctctatc tgtttacca 240  
gcatgggcca gatggtccgt cccccccaca tgggtggctg ctgcattcc 289

<210> 28154  
 <211> 461  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-026-Q1-K1-B9  
  
 <400> 28154

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 gtcgccatgt ctggcatcat ccacaagatc gaggagaagc tccacatggg gggcgaccac 120  
 aagaaggagg atgagcacca caagaaggcc gaggagcacc acaagaagga ggaggggggag 180  
 caccacaaga aggacggcgg ggagcataag gaaggcatcg tggagaagat caaggacaag 240  
 atcaccggcg agcacggcga caagtccggc gaccacaagg aaaagaagga caagaaaaag 300  
 aagaaggaga agaagaagca cggcgagggc caccgaccag acggcggcca cagtagcagc 360  
 agcagcgaca gcgactgaga tctggtgtcg cagatgtcga tgctggctta taatgcagca 420  
 caggtgcaac acangtatgc tngctggatg gaggattcat a 461

<210> 28155  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-026-Q1-K1-C1  
  
 <400> 28155

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 tgattgacaa agcaccaccac atggtctgta tcatcaggaa acatatacat cgtataaaaa 120  
 acatcagaaa aaggaaagat ttgcagttca aaaaaaaaaa cattaataaaa aaaagaataa 180  
 ccaaaaagaa aacaaaaaaaa aaagcctagc catcaagaca taaaaaata acaaacccta 240  
 tgtctaaaat tccagacatg taatcgctta ttgcacgcca tacaagacac g 291

<210> 28156  
 <211> 470  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-C10

<400> 28156

tcgcccacgc gtccggatga tgttaagcgc aagagcagaa gcaagagtag aagcaagagc 60  
aggagcagga gtagaagccg ctcataccac agttcttcac ctgcccggcg cagtgtctagc 120  
cctcccaaga gcccacccgc acagaggagc cccactcctg aaaagcatgc caatggaaaa 180  
gattcacctc tgtcacgcag tgtatctcca tcaccgaagc gtgcaagctc ccgcagccca 240  
ggcagcgata gcaaggaata aagcttggtg atctgggtgat gcttaaagag cagtcttccc 300  
atggggattgc agaacgttga gaaggctggt tgaatatgat ggcagtacca atctgcaatc 360  
aaccgctatc caaggttgct agttctttta atgacttcta gaattgtgtt ttccagttgt 420  
caaaatatgc tgntgggttg tatttcgacc tctattgtct ttttataccc 470

<210> 28157

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-C11

<400> 28157

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gccgcgcctt ccgccagtc ggcacaaacg tcctcgccct cgccgccgcg ctcgagattg 120  
ttgccgttgg atacgccatc atgaccacga gatcgccgga catcagctgg cagatgaggg 180  
cagtcagggt gctacccatg ttcttggttc ctgctctagc tgctctcatc tactcgacca 240  
ttacaaacct cacgaaaatg cttgacaaca gagaccaaca aactcttgaa aagctacgaa 300  
ctgaaaggca agccaagatt gacgaattga aggagagaac aaattactac actactcagc 360  
aacttataca gagatatgat cttgaccag ctgcaaaggc ggcagcggca acagttttgg 420  
catcaaagtt ggggtgcggat tctggactga gagtctttt 459

<210> 28158

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C12



<400> 28158

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ttacccggaa acatgagctt agcgtggatt ttaccatttt gaggtgtag aaaagcgtgc 120  
tgcctatttt agactagata tacagactaa aacatatgga gcccacatt tcgggtattg 180  
tcaagtgtg cgtttcactt tcaaaatagt gtaagggcct tgtgtttttt ttcttcttct 240  
gaatttggtg taaaatagtc tagcatccct tgcaaagagg gggtaatgtt gttgtcacat 300  
gatggtgtgt accaaagtgt agtaaagcat cccttgcaaa gagggggtgg tagtgtcctg 360  
tatgtttttt taagcaaagtg tgacaaacta tataagaaat gaatatttca tgtgagttat 420  
gt 422

<210> 28159

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C2

<400> 28159

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gaatggaaaa gtatactcgg tggtagtggtg attcagagac accgtaagat cgtgcagcaa 120  
aacgcttata agtacatgag ggtatcatgg gcaaagattt tccagacact ctttattcaa 180  
tgtttatagt ggcattattt cttcattacc att 213

<210> 28160

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C3

<400> 28160

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tgccacttac caggacacc ctctgtact cgaatgtcaa gatcgattag tttgaagggg 120  
tgttcgcggc agccactctt ggggttcaac tttggccttg tgtatttatg ggatggattt 180  
cagatggtag agacgtatgc ttgtgctggt cacaaaacca gtgtacaatg tgatactagg 240

tgctacgtgc ctttcttttt ttaatctgtg ctgcactctt gcctgtatgg gctgttttgt 300  
 tgttgggttc cggtaaataa tccagaacag tggcacaaac gattagttgt tgcattgctac 360  
 tgccttttct gaataaatct gtcattgtaa tcg 393

<210> 28161  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-026-Q1-K1-C5  
 <400> 28161

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 gccgcatcat cgttccgccc ccttgagtgt tcagtaactt cttccgatcc atattatggc 120  
 ttcaaagcag cagcagaaac agttcctgga tgaagccatg atcaagcagc cgacaccgga 180  
 ggaggaccgt gagggcgcat ggccctcagt gctgacgac atcggttttg gattcctaac 240  
 cttcaactca ttcattggctg tgtacaggtc aaatggagat gttggatcta tctcctttgt 300  
 ggtcttctct tacctgggtc tcgttctgct gttctactgc ctgcgccgat tcgagacaac 360  
 tccaccagag tcgcctagcc gggagcacat aataaatggc cgtgtgggta ctcaccacga 420  
 tgctcactgc tgcgtttctca taca 444

<210> 28162  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-026-Q1-K1-C7  
 <400> 28162

aaaaaaaaa aaaaaaaaaa aaaaaataaa attaaaaaaaaa aaaaaaaaaa tgaacatgcg 60  
 gaaggaaaac atacacacta gctgaactaa aatttcaaaa atctattaat ttcaattggt 120  
 cttcctaagt tcacactatt gcccttcaac ttttcaactt gcatattact agaatccttc 180  
 ccatataata cctacgtatc cttccgctgt tcaccttttc agcgtacaac gtgatactat 240  
 gtgctacctt cttttctttc cttaactctgt gctgctctct tacatgcttt gactgttcta 300  
 tccc 304

<210> 28163  
 <211> 277  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-026-Q1-K1-C8  
  
 <400> 28163  
  
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 aaggaaaaa aaaaaaaaaa aaaaaaatat aaaaaaaaaa aaataaaaaa aaataaaata 120  
 atatataagag actccttaat tcatccaaat ttccatacct tttacatcgt aagccactgg 180  
 tataacactg gggttcccaa ttttaatcag tctggccgca tattcaaaat tataccatct 240  
 ggtataactc tcaaagtttc ccaattcata tcgcttt 277

<210> 28164  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-026-Q1-K1-C9  
  
 <400> 28164  
  
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 aagaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaataaaa aaaaaaaagg gcgccccttt taaaaaatca 180  
 aatttttctt accgttactt taaattttaa aattttttta aaggggcccc aaaattaaat 240  
 ttattgcccc ttttttaaaa acttttaatt tggaaaaacc ttggttttcc caaattaaat 300  
 ccctttaaaa aaaaaccctt ttttccaaat tggtttatta cc 342

<210> 28165  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-026-Q1-K1-B4  
  
 <400> 28165  
  
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gcggcgccgg cgctcgttgcc ccggcgccggc ggaaccaggc tgggcagggc aagccgaaag 120  
gcggccttccc cggcgccggc ggtctcggcg ggccgatgat ggccggcgcg ccgcccgcgc 180  
atgcgggcat gatgatgagg ccgccgaaca tgatggcgcg cgccggcggt tccccggca 240  
tgggccagat gggcgccac ccccatgg gtggcgcgcg catgcccat gcaggcgggg 300  
gcgccgcgca cggcatgcc gctggtggca gcatcagcat ggccgtggc ggaatgcctg 360  
ggcccggtt ctttcgcgc ggcgttggcg gcggcatgcc ggccggcgcg gagatgctgg 420  
gcatgtcgca gctgcctccg cagcaacagc agcaca 456

<210> 28166

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A11

<400> 28166

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ggtacgccat catgcatctg gtcacgttgc gaccatggag ctcaacaccg accaaatcta 120  
ccgagactac atgctcgatt ccgaagataa ctggaattgc cagctcgaaa acattacctt 180  
caccgcaaaa tatggaaacg ttccacagat ccatgcacgt cttcatcaaa ctatgcctag 240  
tcatatztat gattatacct gatatgctca agaacgctac catgttcaag ctcttggaag 300  
ctacaattaa tcgcaaatga tcacctatta caattt 336

<210> 28167

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-A12

<400> 28167

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tgggcctaag ccgttgctaa ttgtcaacat tgggggcccc accaggaatt gtaaatatgg 120  
tgtagatctt gccaggcagc tcataacttc tctgtataat gtgctagata gctgtgggag 180  
tgtcagaatc tcattctctc cgagaacacc atggaaggtt gctgatacta tatttaaaga 240

atttgctgga catcccaagg tctatatattg gaatggtgaa gaacctaacc ctcacatggg 300  
 acatcttgca tgggctgatg cttttgtcat aacagcagac tcgataagta tgttaagtga 360  
 ggcaggtagc acagggaaac ctggttatgt tattgggacc gaacacttgt aatggaagtt 420  
 ttcggctttt cacaag 436

<210> 28168  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-026-Q1-K1-A2  
 <400> 28168

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 aaagaaaatg agaaaataaa aaaaaaaaaa aaaaaaata aataaaaaaa aaaacaataa 120  
 aaaaaaaaaa aaaaaaaaaa tataataaaa aaaaataaaa aaccaaaaaa aaaaaaaaaa 180  
 aggaccccct ttttaaaaaa acaaattttt attacccttg aatccaattt taaaattttt 240  
 tttttgggaa ccaaaattta aattaatttg cccgtttttt aaaaaatcca actttaaaaa 300  
 acctttat 308

<210> 28169  
 <211> 427  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-026-Q1-K1-A3  
 <400> 28169

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 cggccgagaa aacaaaacaa accgaaagaa gaaaggcgac gaggaagaga aggctctccg 120  
 cgagatctgg gggagctccc attctcaaga tgcacgactt ctgcttcacc atcccctacg 180  
 gggttcgcgt gctggccggc ggcgtgctgg gctacctccg ccgcggcagc accgtctccc 240  
 tggcggtggg cgccggcgcc ggcgcgctgc tctcctcgc gggcttcgtc agcctgaagg 300  
 ccttcgagaa gagacgcaac tctacgtcg cctcgcgct cgagacgctt tgtgcattag 360  
 ccttaacttt cgttatgggg caaagattcc tcgagacttc gaagattatg ccaactggtg 420

tcgttgc

427

<210> 28170  
<211> 414  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-026-Q1-K1-A4  
  
<400> 28170

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ggggtgagcg gatcgagatg gcggcgtcgg atgttgagta ccgtgttcgt cggcggcctc 120  
gcctggggcca cggacgacca ctccctccac aacgccttca gcacctacgg cgaggtcctc 180  
gagtccaaga ttatcctcga tctggagacg cagaggtccc gcggcttcgg cttegtcacc 240  
ttctccacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa ggagctggac 300  
ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg cggcggcggc 360  
ggctacggtg gtggccgtgg aagcggcggc tacggcgggtg gcgggcgccg tgat 414

<210> 28171  
<211> 102  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-026-Q1-K1-A5  
  
<400> 28171

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cgagtttctt gcgaacatgg ctttataggt ctagcttcat gc 102

<210> 28172  
<211> 269  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-026-Q1-K1-A6  
  
<400> 28172

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tgctctagct ctagccctag ctagtagcta gccactcggc cgtgtagtca tcagccttct 120

gatcgtcacc catggccact gccgaggtcc agaccccgac cgtcgtggcg accgaggaag 180  
cgccggtggt ggagaccccg gctccgcccg ccgtcgtgcc cgaggaggct gccccggccg 240  
ccaaggccaa ggggaccaac ccagttgcc 269

<210> 28173  
<211> 451  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-026-Q1-K1-A7  
  
<400> 28173

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cgcttcctct acatcaccat cctcaccgtc atgggctctt ccaagtccac ctccaagtgc 120  
gccaccgtcg gtatccaggg catcgcttgg tccttcggag gaatgatctt cgcgctcgtc 180  
tactgcaccg acggcatctc cggaggacac atcaaccag ctgtgacttt cgggctgttc 240  
ttagccagga agctgtccct gactagggcc ctctttctaca ttatcatgca atgcctgggt 300  
gccatctgtg gagctggagt ggtgaacggc ttccagcagg gactttacat gggcaacggt 360  
ggtggcgcca atgttgctgc acctggctac accaaggggtg atggccttgg cgctgagatt 420  
gttggcacct tcatactagt ctacaccgtc t 451

<210> 28174  
<211> 368  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-026-Q1-K1-A8  
  
<400> 28174

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gcgcatcgag agaggacagg gtttgatggc ccatggacta gggatcctct gaaatttgac 120  
aactcttatt tccttgagct tctgaaaggc gactctgaag ggctcttgaa actccctact 180  
gacaaggttc ttgtggaaga tcctgaattc cgtcagcatg tccaactata tgccaaggat 240  
gaagatgcat ttttcagga ctacgcggag tcacacaaga agctgtcaaa gctaggcttt 300  
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368

<210> 28175  
<211> 466  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-026-Q1-K1-A9  
  
<400> 28175

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ggtgctccat gaggcagcgg gtcacgtggt gacggtggag ctcaagaccg gcgaagtgta 120  
ccgggggtcc atggctgagt gcgaggataa ctggaattgc cagctcgaga acattacctt 180  
caccgccaag gatgggaagg tttcgcagct ggagcacgtc ttcacagag gaagcagagt 240  
gagatttatg attatacctg atatgctcaa gaacgctccc atgttcaagc gcttgggaagc 300  
gagaattagg ggcaaaggat cagctattgg agttgggctg ggacgtgcag ttgcaatgcg 360  
ttgctcggct gcttctggct gtggtggtgg tcctgttggg cgaggcagcg cgccttctgt 420  
gaggaggtag attttatggt gtcattgngc ttttcttggc tggctg 466

<210> 28176  
<211> 411  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-026-Q1-K1-B1  
  
<400> 28176

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gaaactagtc atagttattc cagtaataat tctcaaagca agggaagaaa ataacagaaa 120  
gggcgcatta agttgaccag tactagggtt tccatctgca gatcgaaagt taggaccaac 180  
caaaagctag gaaacacatc aagctgcgcg tctcgccata cacaaattca tcacccaaaa 240  
acaaaaacct tcaccgtctg atctggctgt ctgatccgat gtgtgggagc aagatcggtc 300  
ggatcggatc ggatcacgcg gaagccgctg ccgttcggta gcggttgagc ttgccgaaga 360  
tgtggaggtc ggtgacgaag ccgatgaagc ataggacat gacgagcacc a 411



<210> 28177  
 <211> 466  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-026-Q1-K1-B10  
  
 <400> 28177

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tgaacttcag aatgccatta gagttttcag tctgttatct gttgcatcaa cgtaccactc  120
ccatggtttt gatgagagga aaatagaaac tcatgttgag tactgtaaac atttacttga  180
tgctgctaaa gttcatcgtg atgcaactga gcaagctgaa cagcagaata agcaaaaaat  240
ggaagttgct cgtcagattg ctttggcaga agaagctcgc cgaagggcag aagagcagag  300
aaaatttcag ttagaaagga ggaaggaaga ggatgaactc aagcaagtaa aacaacagga  360
ggaacacttc cagcgtgtga aggaacaatg gaaaacattc agcaacaccc ctggcaagag  420
aaaagatcga tctaagactg angatgaaga ggtgggaaat aaaaag                    466
  
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<210> 28178  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-026-Q1-K1-B11  
  
 <400> 28178

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atgctctatg ctgtcgaagc tgtgctgtgc cattattgta gctgatttcg tctccattca  120
cttctttttt cttgttagta ggctggtagt ggtcgaatta atttgctttg tgttgccgct  180
agtccatgtg gactggtatt gttcccttgg atttatttgg caagcgtgtc cgtgctcgct  240
ctagcgtttt attgagcttt taaagtcatc gcattcaaaa aaaaagacaa gaaacaaaaa  300
aaataaaaaa taaaacaca                                     319
  
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<210> 28179  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-026-Q1-K1-B12

<400> 28179

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cggcgtataa taagcttccc ctttctgcaa ctgattctgat ccgggctgcc gtgagctctg 120  
ctcgtctctga tggagttcaa gagggatgta tggagcctgc tctctgtgct gctcctcggg 180  
cagctcgtcg ctttctccat ggccgcctca agcttcgcct cctccctcat tgctaattctt 240  
ggagtcgatg cccactgac acagtctttc ttagcctacc tgttgctgac cttagtctat 300  
gtaccaatcg tctgcgtcg acggcagaag ctgcaaatac cttggtactg gtacctagct 360  
ctggccttct ttgatgtaca gggaattat ctngttgtga aggcgtacca gtactcatat 420  
attaccagtg t 431

<210> 28180  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B2

<400> 28180

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aaattgctgc tcagatctgt cgtcaggctg gccttgtgaa gacattggag aaaggaaagc 180  
atgcagaggg tggatgaagat gacaactttg ctattgtgtt tgctgctatg ggagtgaaca 240  
tggaaacagc tcaattcttc aaacgtgatt ttgaagagaa cggttccatg gaacgggtca 300  
ccctttttct gaatctggct aatgatccca ccattgaacg tattatcacc cctcggattg 360  
ctctaacaac agcagaatat ttggcatatg aatgtgggaa gcatgtactt gtcattctga 420  
cagata 426

<210> 28181  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-B3

<400> 28181

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gtcaagacga gcagtgactg tgagtgagcg gcgtctggtc actctgggtg gaactgtgaa 120  
gtgaggactt gttggaggag gacggagcgc gggccgcgga gggcatggc atggtgatgg 180  
acctgctgct cccctcact ttgccctag tgctctaggc agccttagct agcctcgag 240  
tcctgggagg aggagaagga caaggctctt gatcagctcc agcttgtctg gtcaaagctg 300  
aggagcctgc ttgggctgcc tgtgagtcca agctcgacag gaccactgcc actgtgaagc 360  
acagcggcag cggcgacgag acgaggacgc ggaagctgcc aagcgatag atctacgcaa 420  
aatg 424

<210> 28182

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-A10

<400> 28182

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ccaagacgac tgcacggcg cagagcagc aggccaacgg caacggcaac ggcgagcaga 180  
agacgcgcca ctccgaggtc ggccacaaga gcctgtcaa gagcgacgac ctctaccagt 240  
acatcctgga cagagcgtg taccgcggg agccggagag catgaaggag ctgcgcgaga 300  
tcacgtcaa gcacccatgg aacctgatga ccacctnogn cgacgagggc cagttcctca 360  
acatgtcat caagctcatc ggcgccaaga agaccatgga gatcggcgtc tacaccggct 420  
actcgtcct cgacaccgag ctgcactcc cggaggacgg cagcatc 467

<210> 28183

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G6

<400> 28183

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gcagaacgaa cgtaacatt gcgagtactg tgacgccgtg catcgaaagg gtgaggatca 180  
atgctcaatg ggtcaacaac atgaaggacg aggctgactt tggcaatggt ctcaagaacc 240  
tggcttacta gcactgatca tagaggctcc acttagattt ctgggttatt gctaatacct 300  
ttatgtaacc ttgttctttg gaattagtcg attaataatt ggcacttttg tatgtttatt 360  
a 361

<210> 28184

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-G7

<400> 28184

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ggagcactac ctttacagtg gcgagaagaa gcacgtcgtc gccggcatcg ccatcttcgc 120  
tgccgtcttc ggcgctcccat ggtacttcat gacgcgaggg gcaaagcatc aatctcacca 180  
agattacatg gaaaaggcta acaaggcgag atcagagagg ctttcttctg gacagtcac 240  
tgactaaaaa gaatgaatgt tgtattgcct attctgggtc ctgaccttca gagctgggtca 300  
tagatcatac actgtattng attgcactca acggatttga tctgntgnta aataagcagg 360  
gtatctttct ttctaataac aggtgtggaa acgaagtacc gtccaagat ttttgctact 420  
ggtgatcctt ttttgg 436

<210> 28185

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G8

<400> 28185

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ctatctccag cgcattccaa gaggcggaaa gggaggatcg tggagcggcg aattattggt 120  
tgtttcccca agatgtcttc tccaagcaag cgccgggaga tggacctcat gaagctgatg 180  
atgagcgact acaaggtgga gatggtgaac gatgggatgc aggagttctt tgttgaattt 240  
cgtgggccta acgaaagcat ttatcaagga ggtgtatgga aggttagagt agaattgcc 300  
gacgcatatc cttacaaatc cccatcgatt ggtttcatca attagatata tcacccaaat 360  
gtcgatgaaa tgtct 375

<210> 28186  
<211> 328  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-025-Q1-K1-G9  
<400> 28186

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tccggaggcc gcgagtggga gcgccaccac cagcgtctgc ggcaatggcg ggcacggtga 120  
cggtcgggg gtcgtcgacc cctccacgc cgctgctcaa ggacgagctc gacatcgatga 180  
tcccagcat ccgcaacctc gacttcttgg agatgtggcg gcccttcttc cagccctacc 240  
acctcatcat cgtgcaggac ggcgaccga ccaagaccat caaggtgccc gagggcttcg 300  
actacgagct ctacaaccgc aacgacat 328

<210> 28187  
<211> 385  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-025-Q1-K1-H1  
<400> 28187

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cacacgcgga tggagcacta cactttacag aggcgagaag aagcacgtcg tacgccggca 120  
tcgccatctt cgctgccgtc ttcggcgctc catggtactt catgacgca ggggcaaagc 180  
atcaatctca ccaagattac atggaaaagg ctaacaaggc gagatcagag aggcctttctt 240

ctggacagtc atctgcacta aaagaatgta tgtcgtattg cctattctgg tccctgacct 300  
tcatagcttg tcatagatca tacactgtat tgatctgcac tcaacggatt tgatctcgtg 360  
ttaaataagc cggttatctt tctttt 385

<210> 28188

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H10

<400> 28188

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aaagaagtcg ctagcagaaa ataatagcct tcttcgtcag atactaagca ccaatcgagg 120  
catgtctcct ccttaagatt gttgctatag togaccatgc caatgttaca tccaacaaca 180  
ctggactact tttttattag ttgtctatct agtctgatca tattgatact atagtagctg 240  
tgtgcagctt gtggcggttg aacatgtcct acttttgcac ttaagttata gaaaagttgt 300  
gtgtgttcat gttgtttgat gaaattgtat gcacggtttg gattgaattc aattatatac 360  
tgatttttatt aatt 374

<210> 28189

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H11

<400> 28189

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tttgcattcc atctgtctta ctgagggtta ttaccggttg tggttcagaa ggtacaggga 180  
agggaaaaat aaagcgctcg gttatagagc ttgaggagaa ggaacatatt gaggggcgcg 240  
aagagaactc tggaactgta gcccttcgac ttggtgggac aagagagtat cggttccttg 300  
agcatgaaag cgattctgac ctagtgggga actttaacat agattaactt ctgatctaata 360  
ctatgtattc ccgtatttat gtgttatagc tatggatgc 399

<210> 28190  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-H12  
  
 <400> 28190  
  
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 gagcggcggc gcgtcgtcat cgaagcacia gaacggcggc ggcggaaga agccgatcaa 240  
 ggtgctttac atcgccaacc ccattgcgct ccagaccagc gccgagggtt tccgcgcctt 300  
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 ctccggcgct gccgcacagg gtctgagcc 389

<210> 28191  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-H3  
  
 <400> 28191  
  
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 gtcattttca cagctagtca gagagtctat gctgagcaac ttatagataa acttgaccct 120  
 gatggaaaat atatctcacg gcgtatttat cgtgaatctt gtgtattctc tgacggttgc 180  
 tatacaaagg acctgacaat tctggggatc gacttggaac aagttgcaat agttgacaat 240  
 actccacagg ttttccagtt gcaagtggat aacggcatac cgattaagag ctggtttgat 300  
 gaccctcag atcaagaact gatcgaag 328

<210> 28192  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-H4

<400> 28192

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cagcgatggg caggtatgag ctaagccgaa tatcagccgc tgtgttcatt gcacttggtgta 120

aaggaaaagt tcagtgtcgt ggcaatgtac gaagcctcgt ctttcgtgga tggttcagca 180

cgatgttgtt ggattttggc tggcttcagc gctgccccaa aggtctagac ctaagatcac 240

tggaggagaa tctagggcga ggcatTTTaa CCTCCCTCT gaggcagcag caatgtttgt 300

ttgaagaatg gttccagttc tattcgacca aaggTgctga gtgtccgaac cttattaggg 360

ctttccaggt atgggtggaga aggtctttcg ttagatcgtc ggtag 405

<210> 28193

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H5

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ttgtagcctt ttggagagtt ctatcggttt tggattcggg agtttatgaa ggcttgttga 180

tgagtttgag ctcgaaatagc ttttgaaaca gccggatgat gccatcttta ataaacaaaa 240

ttctgtgact gcattcacat ttctgtcagt cacctgagtg ag 282

<210> 28194

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H6

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aatcctctcc ggaaccgcgt tgagcagggc acggctcgatt ggatctagat tctaggggtga 120

gggtccgtcg ccgaagaaac tcgcaggcgg tcacgaggag gcggcggggg agggcggagg 180

agatggcctc ggaggagatg acggcgacgg aggtggctgc gctgctggac ttgaagccgc 240



acccggaggg cggttctac accgagacct tccgcgacgg ctccatcacg c 291

<210> 28195

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H7

<400> 28195

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ggaaaagatc aactgcttgt tttgattaga aagttcccag aaggtcttgc tgttgtggaa 120

gtcaaggatg catattcaaa tgtattggaa gatttgcagg ctctgaaggc tgctggtgag 180

gtttggctgt tatcaaacat ggactcccag gaggacattg tatacccaaa tgatccacaa 240

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<210> 28196

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H8

<400> 28196

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gagttgctag agctgattcg gaggaagatg ctgctgcagc tgaggttggt gaaggggctg 180

atctaggtat tgtgggtgat gatacacagg tttccagtga tggaccttta agcctgctc 240

ctggtgtaga gacagtagtt gtattcccca aaaatgctgg caaaattgta ctagcaggtg 300

aagaaactga attactagtt ggtcttgcaa atgaggggtga atc 343

<210> 28197

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-H9

<400> 28197

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ccgctaattcc cctccctaatt caccatccat ccattccatcc ggtaggattc ccagagccatg 180  
tcggcgactg cgggtgaagtt tcccgtggag gcgcgcgcga ggacagtga ggtcaccaac 240  
gtctctctta gtgcaaccgt gcaagacatt aaggagttct tttccttttc aggagatatt 300  
gaacatgtgg agatgcagag tggatgatgag tggctctcaa ttgcatatgt cacttttcaa 360  
gatgcacata gcgcaaaaac tgcacttctt ctttcgggtg ccacaatagt tgatctttct 420  
gtcatcattg ga 432

<210> 28198  
<211> 423  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-026-Q1-K1-A1  
<400> 28198

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cttcttgagg atgtgggcgc tggcaaactc agcttggttc ttcggtttgt taaggacag 180  
tttgttgaat tccaggaatc aacaattgga gcagccttct tttccagac cttatcggtc 240  
aatgatgaga ctgttaagtt cgaaatctgg gatactgccg ggcaggagag gtatcatagc 300  
ttggctccca tgtactatag ggggtgcagct gctgccattg ttgtctatga catcacaat 360  
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aat 423

<210> 28199  
<211> 243  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-025-Q1-K1-G5  
<400> 28199

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actgtcagaa tattatggct tgctgattac catagatata tataaatgta ctgaacatat 120  
 ggattttattg aaatcagggt aatgattaat gaacatcagg atcatttaat acatgaatta 180  
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 tag 243

<210> 28200  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-025-Q1-K1-F11  
 <400> 28200

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 ctcttctatg gcgcatgcta gatgactacc actggctgcc gtgttccaac ttcgggtctg 180  
 ggaaaaccat tttcaatgcc cagcttattg gccttgcagc tcatcccat ttcgccgagc 240  
 tgggtgtaatg cccaagagtc cctgaccgtt cgtcctttcc aacagtttgc gcacctgaat 300  
 ggctaattg 308

<210> 28201  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-025-Q1-K1-F2  
 <400> 28201

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 gtgcactgca agctaagact tgaacatgaa gcactattgc atgtgtgtgt attctcattt 180  
 ttttattaac catctttttg gtcgggtcta tacaagtgta tttaccccat tgcttagcag 240  
 caaagcatta ccaatttggg tcaaaacaat t 271

<210> 28202  
 <211> 309  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F3

<400> 28202

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cggtcgaagt tcttggcagc agccatttga aagaagaacg aagagtatgg taggccactg 180

ctagacaggg aagcagctca attttcagca gcagtttgac caaaaatatc tgaagagcca 240

tgtgcttggg agtctgcatg gagaagcata ggtgaaagaa cgatctggct tttctgatgg 300

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<210> 28203

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F5

<400> 28203

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agcggagcgc cttgggtgatc tacgaagagg atggattcca gtatctccct cctctgcgcc 120

ctcgtcctcg cctcctccct cctgactgc gccagatccg acggcaatga cgcgcagctc 180

ctcaagggca tcaacagcta caggctcctg ctcaagggtc cggcgctggc cgagaacaag 240

aacgcggcgt gcctggccga gcagctcgcg agacagttca aggggcagga gtgcaccaac 300

acgacgggcy ccaacaccgt catcggcacc gagcagcagt tcccggacta cccaggtac 360

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gtgcc 425

<210> 28204

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F6

<400> 28204

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 aattatcagt gagtagtagc tagcttaagc agtgctccga tccgagatca gttcttccag 180  
 cagacctgtg taaatgagag tctcgccgcc ccgccccgcc ccggtgtaac gcatcgtcatt 240  
 gtgtaaaatc tatccggacc cgataaagtt ttgcccttct gtcaaaaaaa aagaacaacg 300  
 atgc 304

<210> 28205  
 <211> 279  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F7

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 gatccccgac ggatcgaggg tcgcgccgcc tcatgagaaa aatcatcttt ttggctcgaa 180  
 cagaaaatac ctgaagcttc aatttgacat cgtgtagcaa tgaatgcgtg caaagaatgc 240  
 tctttttacat gttgagaaat gagaaaaatt agatgtcgt 279

<210> 28206  
 <211> 310  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F8

<400> 28206  
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 ccggttccgt caatgtgttc aacaaccgtc tcagctgaga aggtcaaga gtcattggtc 180  
 ctagccagca gaagaagctc agccccctg gcctggtagc cagaagctcc tctactctc 240  
 gcttcagcga aagtcacagc gcctgaggtt cttctgcctg cgaagcagat gcttgttcaa 300  
 aaaccacagc 310

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 <211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-F9  
  
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 cgagaagacc gagcccggtca aggacgagct gtaaacagcc ttggcgtgga cgctatgggt 120  
 aatgggacag aggagggggg acaaaagctg gcgccaacgt actcgccaag cctccggctt 180  
 tagtttttgc gaggggaagag ggcaaagtaa gagaatggga gggaggggtc tgtggcgtgt 240  
 tttgctctgg tgcggcatgc ctgtgtatcc cattgagatt ctgtacaatt gcaaacagag 300  
 agcggtacct ttttagttaa ttatcagaga tgactgtaga aagaaactga ttgtggtgag 360  
 gttgagtgga cgaataaatg gcgagtct 388

<210> 28208  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-G1  
  
 <400> 28208  
  
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 ggcctaactt tgagtttttt atgtcttgct gctaagcctt gatatgcatt taggtactgt 120  
 ttttatgtct ctaggaaatc aatctatgtt ttctcaactt ctggatcatt taatacttga 180  
 aatagctggc taaccatttg aaaagatata tgagatatca tgaggaagtt atcttcacac 240  
 atgatagaga acagaagttt agaatttttt tttctctaaa ctcagatttg atttcacatg 300  
 actatagttg ctactgcaat cttaggg 327

<210> 28209  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-G10

<400> 28209

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ggggaggagg ggaagacgcc accgcctgcg gggtcgatcg gcgggtacga gtccctgcac 180

aggctcctgg aggccaacct tcccccgat ctattccagg aagcaagtcg attgctgctg 240

ggactgaatt gtgcacgacc tcttgaggct atctcactgc ctgacgccac aaccactctt 300

gcggaaacac acagttttga tttgcaggca ttccgtttta gtgcagacaa agagtttctg 360

aggcaatcaa gagctgttcg agtaggtcta attcagaact caattgctgt tcccactact 420

t 421

<210> 28210

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G12

<400> 28210

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gccgcggctg tcgggatgcc ggtcagggcg gtcgataccg ccacgccttc ctgcgagccc 120

tccccagggc aagaagcaaa tactggacac ccatctctc ctagatgttc actcttaagt 180

gctggaagat cttttgctgg aactcagaat gtttcaagtc tgcagaagga tgaagcatgg 240

aaagtgaatg tccgcatcca tggttgcat cttgaacagg gttatctatg tggaacgatg 300

gaagcgctta atgttccatt agcagatata cctgtagtga cattctggga gggggagata 360

gtggatgcta aaaattacac ctttttctact ggcaagtggg aggcatacacc agaggatgat 420

ataagacatt ggtccaagtt cccatcatth atgcct 456

<210> 28211

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G2

<400> 28211

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 tggttcatgg cacttttcat ctgcatctcc gtgaccggca tcctggaaat gaggtggagt 180  
 ggcgtggcca tcgacgactg gtggaggaac gagcagttct gggtcacgag aggcgtttcc 240  
 gcgcatctct tcgcggtggt ccagggcctg ctgaaggtgt tcgccggcat cgacacgagc 300  
 ttcaccgtga cgtcgaaggc cggggacgac gaggagttct cggagctgta cacgtttcag 360  
 tggaccaccc tgctgatacc cccg 384

<210> 28212

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-G3

<400> 28212

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 aaacagattt tgacttttta aaccatagta ttccttcaaa actgtaaaaa cagtaagatt 120  
 ccaaagaggg cctaacagtt ctagaacgac agacggccac cagaaacttc tattcatcat 180  
 gtttcgggat ggaacatcaa ttcagcacgc cgtcacatcg gcagctcgcc gctatctgct 240  
 atcacaacct tgctcttcgg ctccccactc tgccggnctt cagcttcgac cttgtacaca 300  
 acatccattc cagacaac 318

<210> 28213

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-G4

<400> 28213

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 cataactgtc tcgccactgg ccaccgatga acatggtgac gaggcggagg agtttttcaa 120  
 gagcagaacc aaggcgaaca tcgcgaggac tgtgaggcag agcatcgaga gggtgaggat 180  
 caatgcccaa tgggtcaaga acatcaaggc cgaggctgac ctcggaatg ttctcaagaa 240



gctggcttac aagcactgat cagagacggg ccactttcat ttctgtgtta gtccatgtac 300  
cgagatgtaa ctttgtttctc tggataaagt ggattaataa agggcacttt cgtttgtgtg 360  
tc 362

<210> 28214  
<211> 463  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-025-Q1-K1-F10  
<400> 28214

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cccgccgcgg cagcacttcg acatggccga gccggcctgg ctcaagatcg gcatctaccg 120  
cggcggcatc gtgcccgtca actaccaaag ggtgccgtgt gtgaagaaag gcgggggtgag 180  
gttcagcatc aacgggcgcg actacttcga gctgggtgctc atctccaacg tgggcgggctg 240  
cgggtccatc cagtcggcgt ccatcaaggg gtcgcgcacc ggtgggatgg ccatgtcccc 300  
gaactggggc gtcaactggc agtccaacgc gtacctcaat ggccagagcc tgctcgttcca 360  
ggtcaccagc agcgcaggcc agaccaaacc cttccccgac gtcgcgcccg ccagctgggg 420  
gttcgggtcag acgtttgcga cctcgcagca gttctcttag tat 463

<210> 28215  
<211> 382  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-025-Q1-K1-D5  
<400> 28215

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cgccgttttc gtccttatcg atctcctcgc acctcgtggc ggcacctctc cccttcgacg 120  
caccaagggt ttaggatcgg cggcgatggc ggcgaggctg gcacagctgc gcgctcaggc 180  
ggtgcaggcg gcggagtctg cctcgaagca cggcggctcc tactacaagg agctcatgga 240  
gaagaacaag cagtacgtcg tgcagcccc caccatcgag aaatgccagg agctctccaa 300  
gcagctcttc tacaccgcgc tcgcaagcct accaagtcgg tatgagtcac tctggaagga 360

gcttgatggt gtcaagcagg ta

382

<210> 28216

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D6

<400> 28216

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cggcgtcatt gtccttatag atctccttgc acctcggtgc cacacctatc cccttatatc 120

caccaagggt acatgatact tcataattgc tgcgatgctg gcacatctgc aactcatgc 180

ggttcactct gacagaattc gcctctaagc acgactacat tctactaca 229

<210> 28217

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-D7

<400> 28217

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cgcggggggtg gccagatcg acggccgccc ggtgctgcag ccggcgggga accgcgtggc 180

ggcgccggag ccggacgcct cccgcccgtt caagaagtcc ctacagaagt cgctctccat 240

gccggcctac tacgacagca atgccaccgc gggcgcccgt cctgcgccgg ccgagaacac 300

ccgcgcaagc gcagcggcctt cgtctccgct gcctnccgcy aaagcgacga atgcagctgg 360

cgctttaccc gcggagaaga gcggcaggcc caaggcgggc aggatgccag gcgcggttgc 420

cgccccggtg gtg 433

<210> 28218

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
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tggtcttagt gcagtgcaca ggaacttcca acggagtatg tgcaagtcgt cagaagttgt 180  
tcaaggcagc ttgtttgtca tcatcaccag ggatacaaga catgcttcct cagtaagggtg 240  
ttatcggaat ttttcggttc ctgtaaactg atataaatcg atgggtggaac tgtactgata 300  
atcttccgta tgggtgttatt ggaatttgtg tgacagttcc tgtaaaactaa tgcagagaga 360  
gagatccagc ggtgctcctg cctnctaaat c 391

<210> 28219  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E1

<400> 28219

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tagaattcta tgagactctt ctaggatttg tgaacttcaa aatctatcat tcaataaatg 120  
taaattatcc tctattctg gatccacgtc tggaagcttt agctgttgag ctctatgcat 180  
tgtgccgata catgtctgct ggttccagaa gaatgattgg gaattcacao actgacgaag 240  
taatggaaga taaggatgag aaaagtaaag ctgaggaagt aattgaggaa gagaagggtg 300  
tgaagaataa agcaagctca aaagcagatg aatctgagtt cagattagca cagcttcaac 360  
atcagctccc aaccaatgaa cctgggtgcac tgatgaatct tgtagaagaa tcaactgccg 420  
atgatgcaga tgatgatga 439

<210> 28220  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E10

<400> 28220

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 agcgtcgggg ccgtggaggc gctcaaggac caggcggggc tctgccgctg gaactacgcg 180  
 ctgcgctccg tccaccgcgc cgccaaggcc aacgctccca gcttcgcgca ggccaggaaa 240  
 aagctggcgc cgcccgcgc ggacaaggcc gccgcggagg aggggatgag gaccgtcatg 300  
 tacctcagct gctggggccc caactagcta gggcctctgc tagtttcggc ttcttgcaac 360  
 cgtaccgagc tcggcttcaa atctgatcca tgactgggtg ccttgccgac ccactgtaac 420  
 ataagagttt agcaccacga tgatgatga 449

<210> 28221  
 <211> 262  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-025-Q1-K1-E11  
 <400> 28221

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 tcagtctgcc atacctgcag aataccagc cacaccagca tcaggacggc gggatcatgg 180  
 ccgggctctc taggacaggc tcccacagcc agtgctgcga ccaacgcgcg gtccagaagc 240  
 ggacgcgacc gactgaccag tg 262

<210> 28222  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-025-Q1-K1-E12  
 <400> 28222

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 ggcggcgagg caggacttag acatggtcga gccggcctgg ctcaagatcg agatctacca 120  
 gcgctgcata atgcccgtca actaccaaag ggtgccgtct gtgaagaaag gctcactgag 180  
 gttcatcata aactggcgcg actactacga gctggtgctc atatccaacg tgcacagctg 240

cggtgccatc cagtcggcgg gcatcaaggg gtcgcgcacc ggtggatgg ccatgtcccg 300  
gaactggggc gttaacttgg caattcaacg cgtaccttaa tggccagagc ctgtcgttcc 360  
aggtcaccat ca 372

<210> 28223  
<211> 292  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E2

<400> 28223

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aaaagaataa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagt 120  
aaaaaaaaat aaagtgtaat attataaata acatatatattt aaaattttta aaaaatttgtt 180  
ggctgcttcg ttgattagca tttactgcat ttggattaag aagggattag ctttgtaaaa 240  
tctgtcggta aaatatttta ttggtatgtg atttttaacg ctgttaataa at 292

<210> 28224  
<211> 187  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E3

<400> 28224

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tcgcccctac ctatactggg aactgtaacc atgggggtgca tctgtgcatg caaacgcgac 120  
aagcaaaatt cgggattatc aatcatctgt gctactcgtg ctctgttgat gatcttcttg 180  
ttaaggc 187

<210> 28225  
<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E4

<400> 28225

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 ccgtgccgcc caagaaacca ctgctggtgt tcagctccag cgcgcccgcg aagctgcagg 180  
 agatcgccctt ctctgtggc gatgacgtcc gagggcgcta ctccgttgcc aagcctgcat 240  
 caccaaagtc cgaggagacc gacattgaac gctgacgcga agcagtcgat accaattaca 300  
 ctactacaga ttttgtggtg tgggaatata 330

<210> 28226  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-025-Q1-K1-E5  
  
 <400> 28226

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 attacgtgtt tggcttcttc cttgtcgtgc ttcttttgct gattgtggtg tgtgctgagg 180  
 tatcagttgt tcttacctac atgcattctt gcgcggagga ctggaggtgg tggtggaag 240  
 ctttctttgc ttctggaaca gtggcccttt atgtgttctt ttactctatc aactacttgg 300  
 tgtttgatct cagaagcttg agtgggcccag tttctgctat tctctacatt ggatactctn 360  
 tcgttgctcg ccttgccatt atgctagcga ctggtac 397

<210> 28227  
 <211> 465  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-E6  
  
 <400> 28227

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 gtgtggcctt gagaattgcc aaggacccta ggttccaaag attagcatgc acacacaagg 180

gaacctatgc tgatgäctgc attgtggaga gggtcactca gcacaaatgc tacatagttg 240  
ctacttgtga tagagatttg aaaaggagga taagaaaggt tcctgggtgtt ccaatcatgt 300  
acatcacaag acataggtat tcgatagaac ggctccctga ggccacaatt ggtggagcac 360  
caagaatctg atcgggtgcag acatgaaatg ttctgggatg taatactatg gcggtacttg 420  
tccatctgac caagtcacta tttcatgttt cagtccacga caagg 465

<210> 28228  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E7

<400> 28228

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ctcgaaaaga aaaataataa tagaataata aataaaaaga aaaaaagaaa aatataaaat 120  
aaaggagaac aataataaat aagagtctat aaattaatat aatatataag tatgaagaaa 180  
tatgaaaagg tatataatat acgggtgttat ggaatttgta acttgatcgt gctatctttt 240  
tgctgatatg tgggtgtgtgc tagaggattt cagtgtgttc ttactgtaca tgcatagtgt 300  
gcgcggtgga catggagggt gtgggtggaaa gctttatttg cttctggaac ataggccttt 360  
tatgtgttcc ttactctat caactacttg gtgcaagatc tgaaaagctt gaatggacca 420  
ggttctggta gtctatacat t 441

<210> 28229  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-E8

<400> 28229

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ccagatgttt caaatcacta taccgacata tgtacaaacg aggctgcctc tgttgcagca 120  
gaatcttcag ccccatcagt tgagatagtg gcagagaaaa cagtagatga accatcggag 180  
gcagaaaagag cagtggatga accggcagaa tcatcttttg acagttctgt ctctatacct 240

ttgcctgctc ctgttaatag tagtgagcct gctaactcgg aagcctcttc cgaacaagtt 300  
gcccattgaca actgatgt 318

<210> 28230  
<211> 446  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-025-Q1-K1-E9  
  
<400> 28230

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gacggagacc aagggcaggc cttggttcgg cttctcggcg cttctcagga agtaccggga 120  
gcactttgtc atcaacacga ggtccaaggg caggatgacc tcggagttcg tctcgctggt 180  
ctccttgctc tcctagaggg acggagatgg cgtgttggtg ccagcccgtg tccagaaggg 240  
tcggaggtgt actggctctc gtttgcttgc cccttgctgt gtttcagcag ctgttatatg 300  
gaccaccct gttgtgctgt agtatctcgt gtggtcgatc gaggcagctg cactgggtccg 360  
tgaccgtctc tgtagtgctg gcagcagtgt atggaaagca tgcgttttaa gttttaacct 420  
atgctagcaa ttcagcagca gctcgg 446

<210> 28231  
<211> 313  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-025-Q1-K1-D4  
  
<400> 28231

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atgagtggga gccagagctg ctatgccctc caatcaagga gggggccaaa atagatgctc 120  
caacattgga aagtgccgtt ggaccacata cgattgttga ttgttgatgg taaagaagtt 180  
gtgaactttg catcaacatg aggtctggag tctagacaca gcgttgcaaa ctgaggttta 240  
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cctcgggtcta cac 313

<210> 28232



<211> 426  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-C1  
  
 <400> 28232

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gcggctgata ttgcccgga agcagctgga ggatggtcgc accttggtctg actacaacat  180
ccagaaggag agcaccctcc acttggtgct ccgcctcagg ggtggcatgc agatctttgt  240
gaagacattg actggcaaga ccatcacctt ggaggtggag tcgtctgaca caatcgataa  300
tgtcaaagcc aagatccagg acaaggaagg cattccaccg gaccagcagc gcctgatctt  360
tgctggcaag cagctggaag atggccgtac cctcgccgac tacaacatcc agaaggagag  420
cacctt                                           426
  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-C10  
  
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aggacaaatt ggatatgccc tggttcccat gattgctagg ggtgttatgc ttggtgcaga  180
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tgttgtggaa gcctgcactg ggggtcaatgt ggccgtcatg gttggtggat tccccaggaa  360
ggagggaatg gaaaggaaag atgttatgtc gaaaaatggt tcaatctaca aatcccaagc  420
atctgcccta gaagcccatg cagctcccaa c                                           451
  
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<210> 28234  
 <211> 342  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C11

<400> 28234

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acggctgacc ttccccgagtc ccgacggcct ccagctccat cttgattctt gaggcgaagc 120

cccgggtgcgt aagagtctgc catggccagc gagaataagg tctttgggtt cgaggaagtc 180

gccaaagcaca acgtcaccaa ggactgctgg atcatcatcg ccggcagggt gtatgacgtc 240

actccgttta tggatgagca tcttggtgga gacgaggttt tgctagctgc aactggaaaa 300

gatgctacag ctgatttaga agatattggc cacagtgatt cc 342

<210> 28235

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C12

<400> 28235

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ctagcaggca tcagaactct ataggtgtga cacttgaaat tgttacagat taagacgcac 120

tgacggtacc ctgcgctcag ttgctcgata ctcgaggctt gtaggtgatt gtatccagta 180

gtttgaagaa ctggttatct aattatttat gtaccgtgga tccaccattt tggatacgct 240

tcatcaatat aaaagagctc caattatgaa agttaggaga aaatgacgat ctctaaacta 300

ttcttgagtt gtcgtccagc tgccaagact aatggaattg cagtttaatg tctctgatat 360

attggaacgt gtcctctcgc tccaagctta tacgttggtc tgctggtacg tgccagttct 420

gtaaggagaa at 432

<210> 28236

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C2

<400> 28236

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gagagctgcg agccggctat ggacgagata caacgcgagg tgtactcgaa taaaggcgtg 120  
atgcttcagc tgatgcggtg gacacgtccg cgatgggcca cggttg 166

<210> 28237  
<211> 329  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-025-Q1-K1-C4  
<400> 28237

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gatcgccatg tcggactcgg aggagcacca cttcgaatcg aaggccgacg ctggggcgctc 120  
caagacctac ccgcagcagg ctggcacccg ccgtaagaac ggcttcacg tcatcaagaa 180  
ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgcca 240  
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atgacacaac tgtgacattt cccatgtga 329

<210> 28238  
<211> 432  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-025-Q1-K1-C5  
<400> 28238

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aatagctgca tcggctatctt tcttgccgag atttatacta cagccaacaa agtatccttg 120  
gaattccaca ctgcgtcatt acacacagta caaacccgtc aaattgagcg aatgtgtaaa 180  
ggcattgcat cgcctttgca gcgttggttc tggtagcaac cttccagcaa tcagagaaaa 240  
gtacagtcaa cataagtaca aatttgttgc aaagaagcag tgtccaccgc agatccctac 300  
tgaattcttt cgggacgcga catgctagac tagaaacca aaagtattc cagttgctta 360  
ctggaatctt cttgatgtgt cttgaatgcc cagtgtagca cagcacaatt atgccagtgc 420  
tgataacccc ca 432

<210> 28239  
 <211> 276  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-025-Q1-K1-C6

<400> 28239  
  
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 tccggcatgg cttccaagca gatcggagtc ttgacctgct tcattgccat caccgctctc 120  
 gccttccgtc cctgcgcata cgcctgcccc atggacgggtg gctggtcgaa cggcggcgcc 180  
 acctggtacg gccagccaa gggcgctgga tccgacgggtg gtgcgtgtgg gtaccagggt 240  
 gccgtcgacc agcctnecgtt ctcggcaatg atcacc 276

<210> 28240  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-C7

<400> 28240  
  
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 gctctagcag aaatgctggc gatatgcttg atcgtctcac gcttacttac aacaggacac 180  
 gccaaagcatt catcaccaca gagcttactg agattatatc tgggtgcatca gcccttgaag 240  
 gataggtgaa gagactatgt ggacttctgc ctttttcccc atttgtgttc ctcacacatg 300  
 aaagcttctt ttcttccgga agctcagttt caacccttct cgtttcactt ttgcttgata 360  
 aacgtattct catgctttat tgcaataatt aagccaacga cagtgatgat gccgtgcgta 420  
 tttgcatatt gcaaaaagaa tggctctacat ctat 454

<210> 28241  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-C8

<400> 28241

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cggcgatggg tttcatcatg gagttcgcag agaactgat cctccgtttg atggaggacc 180  
cggacaagcg cgaccagggt cggcgggagc atgcctacaa gatgaaggag cgggtgcgagc 240  
gcaccaaggc ggcgtggagc ctncctctgc gccctacag cttctggacc ttcgaccgct 300  
tcaactcgca gctctcctgg gacctgcaga tcagccaggc tgccggtcgc cgggaccctt 360  
acgacgacct tattaccgc actccggctc ccggc 395

<210> 28242

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-C9

<400> 28242

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cgctgtcctc gaatacctcg ccgctgaggt tctggagctc gctggtaatg ctgccaggga 180  
caacaagaag actcgcatta ttccgcgcca cgtgcttctg gcgatccgga acgacgagga 240  
gcttggggaag ctgctggggc gcgtagccat cgctcacggc ggtgtgctcc ccaatatcaa 300  
ccctgttctg ctgcccaaga agacggcgga gaaggcgtcc agtgtgggga gcaaggaggc 360  
aaagtcgccc aaagaggccg tcaagtcccc caagaaggca tagactgact gtctggagtg 420  
atc 423

<210> 28243

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D1

<400> 28243

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atggacagat ctagcagaaa tgctggctat atgcttgatc gacttacgct tacttacaac 180  
tggacacggc gagcatccat cactacatag cttactgaga ttatatctgg tgcacagcc 240  
cttgaacgat aagtgaagag actatgtgga cttatgccta ttgcccgaat tgagatcctc 300  
acacatgaag gcttattttc ttccggaggc tcagtttcaa cccttatcgg ttcactgttc 360  
cttgatgaac gtattctcat gctttatt 388

<210> 28244

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D10

<400> 28244

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tgaatgctcc gctgggaggc ctaacgaaga acaggaacca ctatgttgag ggcagtgatg 180  
ctggtaaccg tgagaactac atctatgagc tcatccaaag gatgaattat gttcacgac 240  
gagctcattg ataccctgtg ctctaagcga cttgtgctat ccttatttta tattagaaag 300  
ttggatcgtg gatgaatatg catgcagggt tgatgtttcg aactagatgt gtctggaaga 360  
aatctgatct tctttctgga ggttcgggat tattatttaa agcatttcgt atctaagatg 420  
ttagcacc 428

<210> 28245

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D11

<400> 28245

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gttggctgta gtgctttgca gacgaacttc caacaggaaa tgctctggtc gtgagaaaaa 180  
aacttaggga cctgggaaat c 201

<210> 28246  
<211> 326  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-025-Q1-K1-D2  
  
<400> 28246

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aggtgttctg agaggattgc atagtagccg aattgtggaa agggagctcg atcgggcaaa 180  
gaggacactg ttgatgaaac atgaagctga gacgaagaca aacgcctact ggcttggttt 240  
gtttgcccac ctacaatctt catctgtacc aagaaaggat gtatcatgca tcaaggaatt 300  
gacgacatta tatgaaaatg caacga 326

<210> 28247  
<211> 459  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-025-Q1-K1-B9  
  
<400> 28247

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tacctccaa tccacatgta attagaataa ctgaacaagg tcttcagtgt ttcattctat 180  
tccacacact tagttcaact ttgtttaagg tatactacat tacccttgta cactactcag 240  
cctgtgagtt catatcgggt atgatgattg cctgtcactc atcaaactat acttttcatt 300  
atccatagaa aaaaaaacg aattaggttt ttaagacagc tagcttttga tacatgtgtg 360  
tgttatctca atattatgag ggctccaaaa gagtatgatg ggtagctcga gtaaatcgaa 420  
ttaaactatt ttttactggc agatatctgg aacagttta 459

<210> 28248

<211> 453  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-D3  
  
 <400> 28248  
  
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 tcaaggagat caacatccaa gactccaggg ataaaaccag ctccaattcc ttgaatcttg 180  
 tgtgggtccag gttttccacc attcaaaaca gcactctcca ctgggtccac accatagagc 240  
 ttgacattag gattttgctc tctgaggtat cgcccagtac cggatgatgg acctcctgtc 300  
 ccgataccag atacaaggcc atcaatTTTT cctgctgtag ctttccagat ttcaggccca 360  
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 ttgggtgtct ttgcttggat ctcttccgct ttc 453

<210> 28249  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-A3  
  
 <400> 28249  
  
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 tctgagataa tgaaaagcgc tgaaagagaa cgagctctaa atatgctcat ttcactattg 180  
 tgttcacatt ggctagcatg gaagtgtgtg tattaggaaa ctgccgcaac tgtatttcta 240  
 aaaataagga ttatctcaac ttaattatta tgcaacaaat taatcattta tgacaaatag 300  
 ggctat 306

<210> 28250  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-A4



<400> 28250

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tcgtgtgaca gtcaactgat ctatgcaagc tttatggatg ccactgttgg catattttaat 180  
gcatcgagtt tgagacttca atgtcggatt cttccagctt cgtatctccc cccaaatata 240  
agtccgagtg ttcacacctg tgtggttgcg gcacaccctt cggaagcgag tcagtttgct 300  
ctagggctga ctgatggagg tgtttttgtg gtggaacctt tggaatcaga tagaaaatgg 360  
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<210> 28251

<211> 455

<212> DNA

<213> Zea mays

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<400> 28251

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ggctagctag cttctcaaac tcaagttatt aattagtaga gttataaagc tatatagcca 180  
cttcaaactt gggacgagcg agctgaatct tctgtttttg ttactatggg atgggtgtgtg 240  
catgaaggaa agaaaatggg aacacatgga catgcaagtt gattagtaga agagtttcat 300  
tgtatccctt atatatcttt gtggtgcatt attttttact tagttcgcgt atgtattatt 360  
gtggggagtg ggggaaatgt gaagggttac tgataaacg ctcgtaacat ggggggtggg 420  
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<210> 28252

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A6

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 ccggaccag ccctgttcgc cgcgcgcgcg gtgccaggc cgtgccagat ctgcgagatc 240  
 cgcgcgcgaca ccgctacgac tatcaccagg tggatgctct cgtgatctct cggaggccgc 300  
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 caacggaacg gggtggtgga atgc 384

<210> 28253  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-025-Q1-K1-A7

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 gggtagctag atcataacac tcaacttatt aattaacata gacataaagc tatatcccca 180  
 cttgaaacat gcgactatcg agtcaatct tctgccattg ctactatgat atgctatatg 240  
 catgacgaca ccaatacgac tataaataga catagctct gatgagctct gagagtgccg 300  
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 tgcaacgg 368

<210> 28254  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tgtcgccggc ggcgacaggg ttccgttttc cttgctccgg cgggctgtaa atgcttcagg 180  
 ccctcttcgg tgccctcagat ccggtggtgc tcgttcttct ggtcttgatt cgagtgggag 240

gggaaggggt cgcttcggtg ttgggtgact cggagacatg cctgcgctct acgcttacgg 300  
 agatgacggg tgcctcgtct cggcgccggc tgagctggcc ggactcttct gccgcggcgc 360  
 cgtgcagcag cggaagcgca cgctagtggc cgcgtccgct gtggccgnc 409

<210> 28255  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-025-Q1-K1-B1  
 <400> 28255

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 catcgtggtg cacctgggtg gcgcgtacca ggtgttctgc cagcccatct tcgccttcgt 180  
 ggagcgccgc gccgtcttgg cctggcccga cagcgccttc gacgcgcggg agtccgcgt 240  
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 caccgtggtg gccatgcttg tcccccttt 329

<210> 28256  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-025-Q1-K1-B10  
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 ttctccggcc ggctagaggc tgtttcaggc ggcctcgatc tcctccgcgc ggctgaggaa 180  
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 tggagactcc ggcgaggett ctgtggagca cgagcttctt ccgccacaag atcgccgcca 300  
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ttaagc 426

<210> 28257  
<211> 428  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-025-Q1-K1-B11  
  
<400> 28257

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tacctggac tctcatgtc tgtagaatga ctgctcaagg tcttcagtgc gtcatactat 180  
tgcaaact cagttgatca ttgtctaagg catactacat tatacttgta cactactcag 240  
cctatacgtc catatcgctt atgatgatcg ccagctactc atgacataat acttttgatt 300  
atctatacta ctacataccc tattaagaga ttaagacagc tagctgtcga tacatgtacg 360  
tgatatctca atattactag ggctcctaaa gagtatcacc atatacatgc tgtaatcgga 420  
ttaaacta 428

<210> 28258  
<211> 447  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-025-Q1-K1-B12  
  
<400> 28258

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gctcaacaag ttgtggggaa taatgtgcat gaactcacca aagggtgggag ttgatgtgta 120  
gtgtaaggct gaacaacaaa taatggttaa agctgagcat ctcttttaat aagttggtca 180  
aaaattatta gcacttacta aatgtaagt tatgccaacc caaagtaata gtaaatcaaa 240  
attaataata aaccataatg tgatgcaaat gacaaattaa gtttacttcc acaaattaat 300  
tatgtgagtg tacgagctat ctagggtggcg tctcctagtc agcttgatgg cgccaaggaa 360  
taattattag ttctttttat tgttatcggt tatttttttt aagactcttc cgctatgtaa 420  
taatgatgtg acatttatct ctataca 447

<210> 28259  
 <211> 300  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B2

<400> 28259

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ggcgtttctt ggtcccttag tgcaagcaag gacaccgctc ctctagcgag ctccgtttctg 180
aagcggcaag aaagatgatt aatcttttca aaataaaggg tcaaaagaaa gaggaggcag 240
caagtgcctgc tggaaaggcc cctgttaaga aacagtctgc tggggagctc cgtcttcata 300
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<210> 28260  
 <211> 459  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B3

<400> 28260

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tgtactcgga tcagatctcc accgggcgca agcgtcccat ccatgaccgc cttgacggcg 120
acctccctgc cggcacgggc gccggcggcc gtgtccgtca cacggtgtcc aagaggcaac 180
gacagataga tgaaaaatgg aagcatgatc tgtatcgga agatgatgaa ccagcttcaa 240
aatcaacaga tccgaaggat ttgcgattga agcttcagag gcgaagtttt caacaagatt 300
ttaccagcac aagaagttct ggtgtgcgtg atctacgtga gaagctatct ggtataatga 360
acccacagcc atcaaagct gacccaccaa agccaaagcc aaagccagta tcggagggtg 420
gtaacatctc aaggcgtcaa attgctgatg aaatgcatg 459
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<210> 28261  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-B4

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cgggtggagg aggagagcgg cggcgcgggc ctntcggagc cccgccacgg tgtacctgtg 180  
gctcgcgctc gccgcagcag cactgacgct cgcccaggct aagaaggacc taacggaggt 240  
taccacaag gtctacttcg atgtcgagat tgacggcaag cccgcaggtc ggattgtcat 300  
ggggcttttt gggaaaga 318

<210> 28262

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B5

<400> 28262

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tcgcttccct ctaatttcca gcccagtagt agggagacta gaatcgtcgg cgcgacgcct 120  
tggcagattc gtccgccccg atcccaccac caccgtgccc cgcgggtgac gtcggaccgg 180  
cggcgatggc aacgtcggcg gcggcgggat cgcgcaggaa ggcccgagc cctccgaagc 240  
accgtcacga cggtagctcg ccgctgcctc tcggcatgga ctggagccct cccccgaaga 300  
gatgggaggg aaggaacacc atatggccac acaaccctca aacaggttgg agttactgtg 360  
tgatgatgcc ttcttgatc 380

<210> 28263

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B6

<400> 28263

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cctccctagg tagcagcttc tacaatggag gcatccaaca agctcgcagt cttgctcctg 120  
tggctgggtc tggcagctgc cactgccgtg cacccttccct actctgagaa ttcgcctcaa 180

gactacctca ctccccaaaa cagcgcccggt gccgcccgtg gtgttgggcc ggtgacctgg 240  
 agcacgaagc tgcagcagtt cgcagagaag tacgccgcac agagggccgg cgactgccgt 300  
 ctccagcact cgggcccggc ctacggggag aacatcttct ggggggtccg cggttcgat 360  
 tggaaagccg tggacgcaat gcgatcgtgg gtagacgaga aacagtggta caactacgcc 420  
 accaacagct gggccgctcg caaggtgtgt ggccactaca c 461

<210> 28264

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-G5

<400> 28264

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 gcctttgcgt gttcgtggtc cttttgcgct ttctcgtccc tctttctctc aatctctcct 120  
 tattcttctc cttccacggc gaagccggcg gctggatatg atcccaatgg cctcaaaact 180  
 ggaggccttt tgctcccac catcgagagg cgggtgcacgt cgctccatc cgtcattgtc 240  
 atcggcgggtg gcatctcggg cgttgcagct gcccggtgcc tctccaattc ttcatttaag 300  
 gtgactgttt tggaatcgag agatcgtatt ggcggggcgca ttcatactga taactcgttt 360  
 ggatgcccac ttgatatggg agcctcatgg ctacacngcg tgtg 404

<210> 28265

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G6

<400> 28265

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 acgtgacgag gtgcgcaacg gcgctggagg aggctggctc cgactacgag atcgtgccc 180  
 tcaacttcgc caccgcccag cacaagagcc ccgagcacct cgtccgcaac ccgtttggtc 240

aggttccagc tctgcaggat ggtgacttgt acctcttcga atcacgagca atctgcaagt 300  
acgctgctcg caaaaacaag ccagagctgt tgaggaaggg aaacctcgag gaggcagcaa 360  
tggtggatgt ttggatcgag gtggaagcta accagtacac cgctgcactg aatcccatcc 420  
tcttccaggt cctcatcagt ccgatg 446

<210> 28266  
<211> 275  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-023-Q1-K1-G7  
<400> 28266

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cggatgctac atcgaccaa gccagagcct caatgtccac atggagcaag caaactttgg 120  
gaagctgacg tctcttcact tccatgcttg gtccaagggc ctgaaaactg gaatgtacta 180  
tctacgcaca cgagctgctg ctgatgcgat caagttcaca gtggatacca cgcttctgaa 240  
ggagaatggg aacgggggta gcgatggaaa gcccg 275

<210> 28267  
<211> 407  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-023-Q1-K1-G9  
<400> 28267

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tatatgctat tgggtggggga gatggaaatg aaactttttc agaagttgag atgtttgatc 120  
cataccttgg gaaatgggta tgtgggtccat ctatgctgat ttctcgattt gctcttgctg 180  
tggtgaatt gaatggaaca atctacgcca ccggtgggta tgatggaagc atgtacttac 240  
aatcagcaga acggtatgac caaagggagg gtgtctgggt ccgtcttcca agcatgaaca 300  
caaagagggg atgtcatgcc cttactgtcc tgggagaaa cctatatgca atgggcggat 360  
acaatggaga caagatgggt tctagcgttg agatcttcga ccctcgg 407

<210> 28268



<211> 401  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 28268  
  
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 gatgcgccgg cttctgcgta gccaccatcg aaggtccaac tacctccgca cataaacagt 120  
 tgcgccacca cactcccaga atttctcccc cacagcagta ctaggtgcag agaacccct 180  
 tcttccactc gacgtccagc catggcgcac gtcacacaag tctacttcat gttcgagctc 240  
 ctccatggac gcagggatct tccgcggttc agggagtttt atggccgaag gcttctgctg 300  
 tgtcaccacg ggtcaaacag cgagggaaaa cgagagaga gaggaaggag atggagccgg 360  
 atgtcgctgc cgcgtncac acggagagat ccagaagaag a 401

<210> 28269  
 <211> 253  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-023-Q1-K1-H10  
  
 <400> 28269  
  
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 ggtgctcaag aggagcttcc tcgtcgagtt catgttccgc taccgccgt gggacgagac 120  
 caagatcgga atgctcaggc gcgtctaccg cttcgactac gtctcgctct tctcgcgct 180  
 catcggcctc aggagatgaa tcagacggca gatagtgcgt tgaacaattg agcctacata 240  
 atctgtactt cac 253

<210> 28270  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-023-Q1-K1-H11  
  
 <400> 28270  
  
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actgagaaca tggtgggtgg caagaaagtt acagttgtat ttgtcctagg tggtcctgga 120  
 agtggaaaag gcacacagtg tgccaacatc gtggagcact ttggattcac ccatcctagt 180  
 gctggagatc ttctgcgtgc agagattaaa tctggctctg agaacggaac catgattgag 240  
 aacatgataa aggagggaaa gattgttcca tcggaggtga ctataaagct tttgcaggag 300  
 gcaatgataa aaagtgaaaa tgacaaattc ctgatcgatg gatttccaag gaatgagggg 360  
 aatcggatta attgtaattt ttttagctgg aatcgaagca ggcaa 405

<210> 28271  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gtacgtgagc ccggccgaga gcgagggaga ggcattggctg ctccgaagct cgcgacgctg 120  
 gcgctggccg tgctcctggc ggcgaccgcg gtggctcccc cggccgcggt gcgcgcggcg 180  
 atgtcgtgct ccaccgtgta cagcacgctg atgccgtgcc tgccgttcgt ccagatgggc 240  
 ggggccatgc cggcccagcc gtgctgcggc ggcattccgca gcctgctgca gcaggccaac 300  
 aacacccccg accgccgcac catctgcggc tgccctcaaga acgtcgccaa cggcgccaac 360  
 gggagcggca cctacatcag ccgcgcgcgc gngctgccca gcaagtgcgg cgtcgccctg 420  
 ccgt 424

<210> 28272  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-023-Q1-K1-H2  
 <400> 28272

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atttagcaaa atctcaacct gcagtggagt tgcaagttgc acatagttat catcgcatag 180  
gcacgcatgg caggggtgtat ttcttggtga taaccgggga atgagaagac agcgatagtg 240  
aaatactcct agagttgatg accaccacct agtttttttc ttctttggtc tacatgtata 300  
attatgccgc ctgatacctt ttgggtttca gtgtatcata tataccagtg tacaggttcg 360  
gacctgaaca ttaatttgat tgatagtggg ctactgatct ttatgtttt 409

<210> 28273

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H3

<400> 28273

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cctgccaaagc cctacaacta caagaagata gctgatctac ttctgtccga ttgagctaac 180  
aaagggtgaag ggacggcaag tcaatgccac ggtctgcctc cctgatgaat ctgcgtccgt 240  
cttttgccgc atccgagacc aaaagggaga gtccctggta tatgggctcc actccatctc 300  
gtgggttcta tagctagtga aagtactacg ccggcgagct catgcgcagc atcgaccgcg 360  
ccgaccagcc gtcgggtgac atgtcgtcga gggcgatgac tagcgccatg gac 413

<210> 28274

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-H4

<400> 28274

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atgagaggaa gaggtcccca gcaggcgagg aggatgagga gcctcggcgc ggatcatcata 120  
ggtcaccccg tccagcgtcc atgtcacctc ctgggtcacg gtcaagggtc gcgtcgccctg 180  
ctatcagcga ctgatgaatg tggcggcgat ggaactgttg gcccacatgat tggggcggtt 240  
tgtcagaactc ttgttatatc tgctgctagg ctctgttttg attttctctc gtggattgtt 300

tgtgtatgtg gggctaagtc cggtagttgg tttgctcgga atgaaatgag ttggtggttc 360  
gtttgtcggg ggagactctg cttgtaacct ggtatggat cagtggcatt ntgtgcttgc 420  
tgtttaggat gatga 435

<210> 28275  
<211> 234  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-023-Q1-K1-H5  
  
<400> 28275

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accaacgacg agaggggccc tttcttcttt gcaaattaag atatatatca accgaggaac 120  
gtaccaatgc agctactgtc gcccatgtgt tgtgtgtgat gcatagcata ccttaccttc 180  
tgtatccata acgaaattta agaggagaga attttgcctt gccagccgtt tctc 234

<210> 28276  
<211> 380  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-023-Q1-K1-H7  
  
<400> 28276

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gcattgaaaa aaatttgtgt ttgcttaagt atgatttttg aatgatttat ctgttaggtc 120  
gagattgtgg tgcaagttaa tattagatag catgtttcaa tgggtggactg ttacggtttg 180  
agcattagta tcgattgcgg aagaatttct tcctgacatg tttatatagc cctcaacca 240  
atagacttta agcccccttt cctattctt gtacccagc tgccacatgg tgaatggccg 300  
cggttgcaca cctcaaaatc agtggctcga ttctttgtgc gaaggtttag aaccacagac 360  
agaaagcacg gatatttttg 380

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<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A10

<400> 28277

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gcggccagga ttgggccaga ctacttcag gacacctgct cggcgaggat ttctccgggg 180  
gcacggtgcc agcctcgcaa gtgcgccgcg gactgcacca ggcaattcag gggcggcgtg 240  
ggcggctgtg accgctcggg gtgtacgtgc gtctacacct gccctgcggg cccgccactg 300  
gcaaagaatg aatcgatcgc gtgacctga ctgtctcgat gcacaagtag tgacgtgacg 360  
gacgggctag tagccgacct gtgacggatt tgcccgctctg atgaaaatcg tgaatgagtc 420  
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<210> 28278

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A11

<400> 28278

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ggagctgcaa agtccgttgg aattatcttg tagcagtttc tcggcaagat gagtcgcttc 120  
attcactgta cgtcggtgcc ggctactctg aaacttacat actataagaa tctggtcctt 180  
tact 184

<210> 28279

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A12

<400> 28279

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tgggcgaagc cagcaacacg catgcactgc gacgtgcagc agttctaagt ttaaaccctt 120  
gaagtcgcct gatgttgtgt catgtcatgg taggcctacc gattgatgaa ttctcaagga 180

agactatgga tgccattgca gaagagctga cttatgagaa gacgcttgct tactcatgca 240  
 tgcagtaaatt tctaccacat gcagagagca c 271

<210> 28280  
 <211> 335  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-023-Q1-K1-G4  
 <400> 28280

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 cgactacaat atcgtgcaca taacttcgca ccatcacaca agaccacgac acatcgatgg 180  
 aacttgttta gtcaggttcc agctgtacag gatattgaat tgtacctgtt ccaatcaata 240  
 gcaatctgca agtacgctgg ttgcacaaac aagccagagc tgattaggga aggaaatctc 300  
 gaagaggcat taatggttga tgtttgatc gatgt 335

<210> 28281  
 <211> 291  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-023-Q1-K1-F1  
 <400> 28281

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 ttgtcgctaa tggctaaaaa caatggtagt atcttttttt tactcctttt cttttggctt 180  
 tcatgctacg ggaagtttga ggggattcaa ttaattagag tatatgtaag tttggtttcc 240  
 agtcgaatct atcatctggt gcaccatcat tcttccttga cacagtacac c 291

<210> 28282  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-023-Q1-K1-F10

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ttgctgctgg tagaagcagg cgtgttgaag tggagcgtac attgactgac tcacagcgtg 120  
atgaatttga ggacatgctg cgagctttga cattagagag gagccaaata aaagacgcca 180  
tgggatttgc cttggataat gctgatgcag ctggcgagat tgttgaggtt cttacagaat 240  
ccttgacact caaggagacg tctattccaa caaaggttgc tcggcttatg ctagtgtctg 300  
acatccttca taacagtagc gtcctgtga agaacgcac tgcattccga acgaagtttg 360  
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<210> 28283  
<211> 403  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-023-Q1-K1-F11

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gtggaagagg cggtagcgat ggagtcgcag accatccgcc acatgatcga ggatgactgc 180  
gccgacaacg gcatccctct tctaacgtt aactccaaga tcctatccaa ggtaatcgag 240  
tactgcaaca agcacgtaca tgccgncgnc gncgncgncg ncgncctcgaa ggccgggttcc 300  
gacgacgtgg gtgccgnctt cgncaacagc accgncgnc tccgtgagga cctcaagaac 360  
tgggatgcgg acttcgtcaa ggtcgaccag gccacgcttt tcg 403

<210> 28284  
<211> 301  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-023-Q1-K1-F12

<400> 28284  
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tcgtctagct taccattatt ttcatttcat gagatggatt tgatctgctg gattatgcat 120  
taattgtttg ctgctgtatt tacatttgct tgtctgatta attgtttgct agctaattctt 180  
ccggcctcta catctctcta tctatctata ttacgtgca tttattacga ctctattaat 240  
tgaattattg tacgtccgtg tcataaatta attaattaat actataataa tagttgtatc 300  
t 301

<210> 28285

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F2

<400> 28285

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tgtatcgaac caccagccgt ctttggtatt tccctgcgtg acagaccttg tatcatctat 180  
acatgtgttt tagccagtgg ctgtattgta caactttatg ttgtgtccgt ctccataaaa 240  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggacaa aaaatataaa 300  
agatccaaac ataacttaca catacattca acggcataac tcttttatag agccacctaa 360  
at 362

<210> 28286

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F5

<400> 28286

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gctgcatgtc ccacacggag tcgttcaagg acctcgcat gacctgtctg ccgagccagg 180  
tgaacccgct ccgtcgcgcg ccgctgtcgc gcccacatcg cggcgtcggg tgctcgtaca 240  
cagcggacac ctcggtcgga ctcttcggct actgcgccgt cgttgggata ccggccatag 300



tgtttctaca tgacaaccgc atctcgctgg agcagc 336

<210> 28287  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-023-Q1-K1-F6  
 <400> 28287

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 gctacaggcc cttgaggcag acagggagta cataaaacag tgcgtgaggg ccttgaaaag 180  
 gggaggcgaa gggttcgatc ttctccagga gatattgcag catcttcggg acctaagaag 240  
 gatcgagcag cgcggaagga actctgggga gctttcgçct cattacctac atctttacac 300  
 ggactgaaga tcagctgcaa agtctcgtgc ccaatattgc ttgaagatgg aaaccataag 360  
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<210> 28288  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-023-Q1-K1-F7  
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 gtgccacacg gagtctttca atgaccttcc taatgaccgc ctggtgaccc agaccaactc 180  
 tgctgçgtca cgcgccaata gtcgctcccc atcgccggcg tctgatactc gtccacggga 240  
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<210> 28289  
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<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F8

<400> 28289

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acaccctgta cgacccttac cgtgaggggtg ctgactttgt gcgtggatac cccttcagcc 180

tcagggaggg tgcccacact gctgtctccc acggcctgtg gctgaacatc cctgactatg 240

atgcacccac ccagctggtc aagcctaagg agaggaacga aaggtacgtt gatgctgtca 300

tgacaatccc caaggggaacc ttgttcccca tgtgcggcat gaaccttgcc ttcgacaggg 360

atctcattgg ccctgccatg tacttcggtc tcatgggtga tggccagccc attggtcgct 420

acgacgacat gt 432

<210> 28290

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-F9

<400> 28290

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<210> 28291

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-G1

<400> 28291

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tcttcgccgc ggtgccgtcg aagcctggcg ctgagtttcc taatgccgcc cgctggtacg 180

agaccgtctc tgcggctgta gcctcaagat tccctggtaa ggctggttgg gttaaactctgc 240

ctgcgggatc agctcctgcg gcagctgctc ctgcggatga ggctgaggac gatgatgacc 300

ttgatctttt tggatgatgaa actgaggagg acaagaaggc agctgatgag cgtgccgncg 360  
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<210> 28292  
<211> 414  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-023-Q1-K1-G10  
  
<400> 28292

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agggtgctgta tctgacgttg taaacaagaa ccaaagttca tatagttgta aatataaatt 180  
ggaatcatta ctgggaagca tgtgtgacct ttcacaaagg tcgggcctga tgaaatttct 240  
caaaaatgcg atactgcttc tgcttggtgt tttccctcgt aatcatatcc tggaggaagc 300  
tggttcttgtt actacccaaa tggttactcc tcaagagaac tcttctcca ttcaaactaa 360  
tgcacacgg gctttggcca aaagtatgtt gaagaaagac cgacaggatt tttt 414

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-023-Q1-K1-G11  
  
<400> 28293

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gtctagtcga taccttatgc ctgtacgcta aactgtatag ccagatcaga tgctgacgaa 180  
tatgtactgt tagctaggac ctgtgtgacg gcatgtacag ctactagcat atcagctttg 240  
tcgcatgtaa aatgcaagcc caaagttgca gaaccgggac tgctcgtaca agtacatggc 300  
gaactactag ctacaaggct gtaggcagag tctctgtcga ctgtaactgt atgtcatcga 360  
ttcactccag atgttaactt ggcgtatc 388

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<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G2

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aaagtacttc aagcgcggag taagggttga ctggccagag ggagcggcct cacgagagag 180  
catgaaggca gtctggaaat tgcctcgtct gcagaacctt gtgatgcaac atgttgatca 240  
ttctgctgga gatctaattg atcttcttca aggacttctt cggatgatgc ctaatgagcg 300  
cctgaaagca catgaagctc tacaacaccc tttctttacc agatgcatca gaagatgtgg 360  
tttctgaggc tacactgaga ttgaaaatgt caatgctgca tatcttcatt ttgatgtgta 420  
agaactacaa aaaaagtgag at 442

<210> 28295  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E9

<400> 28295

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ggatgatcgtt cacctgtacc cgcttctcaa ggggtctcatg ggtcggcaga accgcacccc 180  
gaccatcgtg gttgtctggg cgatcctgct ggcgtcgatc ttctccttgc tgtggggttcg 240  
catcgatccg ttcaccaccc gcgtcactgg cccggatact cgaacgtgtg gcatcaactg 300  
ctagggaggt ggaagggttg tagaaacaga gagataccac gaatgtgccg ctgccacaaa 360  
ttgtctgtta gtaagttata ggcaggtggc gttatttaca gctacgtac 409

<210> 28296  
<211> 113  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-G3

<400> 28296

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60

gaaggaaaaa taataaatga aagaaaaaaa taaacatggg tgtccacttt cgg 113

<210> 28297

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-023-Q1-K1-D3

<400> 28297

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gagggccgca tcacatgcg caagaccgtg ggcaagccca aggtggcggc gtccggcagc 180

ccctggtagc gccccgaccg cgtcaagtac ctccggcccct tctccggcga gccccgagc 240

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cccagagacct tcgccaagaa ccgcgagct 329

<210> 28298

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D4

<400> 28298

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ctccggcgtg ctccaccoga cgctgttcgg taacctcacc agccttttga agtgtaagat 180

ttgttattct ttagttatat aatttctagt agagacaact taagtattac aactatgtgt 240

tagggagggt tcaggaaaaa gaatgaattt tgtattcagc atatgtgcat aatagggctt 300

cgatttctaa gtctctgtaat actggaagta tgcataagtg cataacagag tttattaaag 360

aaagaaaagt cctcacttgc tggcagttta tccattgtat ttttgtaaataaaggttatt 420  
aaagaatgaa a 431

<210> 28299  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D5

<400> 28299

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ctctgggtacc gctaaaccca gcgaaaatgt tactgcatg gaggggaatg ccgctcccaa 180  
tgtaaatagc actatttcaa ggcctatgcc acagcggcct tggcagcaga caggttatgg 240  
aaacacctat ggagggtatg gtggatccaa catgtatagt tcatatggtg gatttggcaa 300  
cacttatggg accggtggac tcgaaatag catgtactcg agttacggaa gaagttatgg 360  
tgggtggcatg tacggtgggtg gcatgtat 388

<210> 28300  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D6

<400> 28300

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aagcatgtct gcagttatgc atttggttca acaaactttg ctttttaaatt tgcactctgga 180  
gtcattgctg ggggccttgc aactgcttta acaaatccca tggaagtttt gaaggtgagg 240  
ctgcagatga gtaaaagcag taccagtaca ataagagaga tgagaaaagt tatagcgcac 300  
gaagggttta aagcactttg gaaaggagtc ggcccagcaa tgacaagagc aggttgcctt 360  
actgcatcac aaatggcgac ttacgatgag gccaaacagg ccttaatgaa gtggacacca 420  
c 421

<210> 28301  
<211> 395  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D7

<400> 28301

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tcgatcagat ctctccattg acgttttagca ttggcaatac aatgaaacgt atatcagtga 180  
ttgtttcacc tataattatc ttccacacgc ctgtccgccc tgtcaatgca ctgggagctg 240  
ccattgccat ccttggcaca ttccctgtact ctcaggcaaa ggcgtgaggc taaagctttg 300  
gcctaaggat cggagccagt agcaggcact ggatccagtt ttgcttggtg gagtggcatg 360  
tatatataag gttcggtttt cgtgagagag aggggt 395

<210> 28302  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D8

<400> 28302

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ggtggtgctc gaaggcatgg gaagagcaat tgaaactaac ctatatgcgc agatgaaatg 180  
tgactcgatc aagattggaa tggttaagca tcctgaggtc gcccaatttt taggaggaag 240  
actttatgat tgcgtcttca agttcaatga ggccctgaact acgagatata tttgataaca 300  
caataccggc cgcactagtg gtggcttagt tctccccaag atcagcttgt taggtgttgc 360  
actgaacata attttgttag tatcagcaat aatttcaatc aaaataagct acgtatatgt 420  
ggtg 424

<210> 28303  
<211> 446  
<212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3067-023-Q1-K1-E1  
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 aggtggagga cgagcggacg ctggcgatca gtgggttagcg gcgccaggag gagcgcgagg 180  
 actccaagta cctgctcatg gagcggcagc tgcgcaagtt catgcgcaag ttcgtgctgc 240  
 cggacaactc cgacatggac aagatctctg cgggtgtgcat ggacagcgtg ctcaccgtga 300  
 ccgtcgagaa gctgcccccg cccgagccca agaaacccaa gaccatcgaa gtcaaggctcg 360  
 cctgatgtgg gactaggtct accgatcgtg gctctgaaga tgtgggagca gtgccagcga 420  
 gttgtgagga cctttacctg tgtgga 446

<210> 28304  
 <211> 194  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-023-Q1-K1-E10  
 <400> 28304  
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 gtttttagctg ttatgttagt gtgtgcaact aaaactgggt aattaatgat atcgtttttg 180  
 tcgaccgttt gtgt 194

<210> 28305  
 <211> 94  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-023-Q1-K1-E11  
 <400> 28305  
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 ggtacacatt gattactcaa caaacatata tatic 94



<210> 28306  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E12

<400> 28306

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gtaaggatgt cgtatcattc ctttcgtggg cagctgagcc tgagatggaa gagagaaagc 240  
tgatgggagt gaaatggatc tttctactat cactagcgct tctccaagct gcctactacc 300  
gccgcatgag gtggtcagtc ctgaagtccc gaaagctggc cctggatgtc gtcaactgag 360  
gactatcatt accctttttt tattgaaata tgttgagccg ttaaggagc 409

<210> 28307  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E2

<400> 28307

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atgcggaaac tgtgccgctc cttgccgaac ttaagccccg ttacgttgct gcacaaagtt 180  
tatttcctag cactgtgctt gctgcttatg tttgtttgga tgtgccaacc tgcagtgacc 240  
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gctgtaaaat tatgtgattg cctagcagat gtcaaatttt caatcagtag ctaactcctt 360  
ttaatggt 368

<210> 28308  
<211> 217  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E3

<400> 28308

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gtttgggtggg gagttcacca tgctgtttta ccatccgttt acattgtcca aacaaaaata 180  
ttatcattgc tacatcagct gcttttctca ttggttt 217

<210> 28309

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E4

<400> 28309

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agaagcaaaa ggatgaggtc ctggagcgaa tcaacagcca acatggacca aaggcaaaga 180  
agctttgcct gcgcgcacc ctgactggcc catggtagcc tgctgaagct tgcacaaaat 240  
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gagtactgag taccctgtta ccctgtaga ccgcgctac ttcagagctg ccgttcttgt 360  
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tacatg 426

<210> 28310

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E5

<400> 28310

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tcctcttctt cgcttcgcc gacgcatgcg gctgcagggt cggcggatcc tgccttagtc 180

caggcggcgg tggcgggtggc ggtggaggat ctggtggtgg tgggtggtgga agcgggtggg 240  
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 gcagcagcgg tggaggcggc ggatctggtg gcggtggaag cgggtggcagc cgcgatctg 360  
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<210> 28311  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E6

<400> 28311

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 aaaataatat aattaaaatt aaaagacgca atagaagatg aaagagcgaa aagataactg 180  
 aaataataca gacagaaaat ggctgtagct tttgaagatc tgattgtagt ggcgggtggaa 240  
 gctaagaagg tgggagctga aaggaatgca ctaattgaga gcttgtggtc ttattacaat 300  
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 cggattccat tggatggtga taatggaaaa 390

<210> 28312  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E8

<400> 28312

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 atagccctcg gcaaccttcg gtcagaagtt atcaagctga gaaatgaagc cttggagaag 180  
 gacaaaattc tactttcatt ggtggataga gtgaaagaag atgaatcaaa gttgaacact 240  
 caatccgaaa cttataaagc cgaaattgaa gaccttcaga aaaaacttgc tgaagctaat 300  
 gagaactttg cacttgcaaa agctagccaa gaaattagtg aatggtcgaa aactagacta 360

gagaaaaatg ttgaagagct tcgtgaat

388

<210> 28313  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D2

<400> 28313

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ctctccggcg tgcttcaccc gacgcttttc ggtcacctaa ccaagctttt gaagctgtag 180  
attcgatgat ctctagtgat ctctgtctta gtataaccaa ctctatcctt gcacctatgt 240  
gttaggtacg gatcagtaaa aacagttgct gttcaattcg acatatgtgc ataatt 296

<210> 28314  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B9

<400> 28314

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aggtagggat gcataccaag tctgaggatg atgcctttgc ttaagggttt tctaccttgc 180  
tagaacatat ctgtggtttag aactttgtca gaactacgtg caatctgttt gaatgcttca 240  
aacctttgtg gtggaacctt tgtatgtttg aacctctgtt gtggaagaac tagtgtgctg 300  
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<210> 28315  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C1

<400> 28315

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 180  
 atgagggaaa aaaggacaaa gtataaaaaa tacatataaa agaaataaaa agaaaaaaaa 240  
 ttaaaaaaaa aaaaaaaaaat agaataaaaag aaaagttaaa aaaatttata tgaagt 296

<210> 28316  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C10

<400> 28316

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 tatgaagggtt ggtgaggttg caaaaattac atgcaaata gaatatgcat atggagctgc 180  
 aggctcacca ccagagatac ctctaatgc aaccttatt tttaggtgg agctagtagc 240  
 ttgcaggccg aggaaagggt caagcttagg cagtgtatct gatgagaaag ccagacttga 300  
 agaacttaag aagcaacggg agctagctgc tgctaccaa gaagaggag 349

<210> 28317  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C11

<400> 28317

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 aagcagctgg catggcatgc gtagtacgta gccagcagca tctagcacta gcagtccatc 120  
 ggagcgacga tggtgagaag gacggtgctg gggcgctgc tggtgggcgc cgccctcgcc 180  
 ggcggcgcg gcggcgagct caaggagggg ttctacgact actcctgcc acaggcggag 240  
 aagatcgtca aggactacgt gaaggcgac atccccgacg cgcccgacgt cgccttcacc 300  
 ctgctccgca ccacttcca cgactgttc gtcaggggct gcgacgcgc agtgctgctc 360

aacgcgacgg gcggcagcga ggcgagagaag gacgcggcgc ccaacctgac gctgcgcggc 420  
 ttc 423

<210> 28318  
 <211> 406  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C12

<400> 28318

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 ttcgcgttgc tggaagcaaa gatggcactg agtaccatcc tccaacgctt ctcctttgag 180  
 ctctcatcat cctacactca tgcgccatac accgtgataa ctttgcaccc tcagcatggc 240  
 gctcaaatca ggttgaagaa gctttgacca tgatgggtcat actgaatgcc aaaacatgca 300  
 ctcttagtaa catattgtga ttgttcatgt atgcagggtt aaatttagct ttgatatgaa 360  
 taatgagaac caagtgtgta tgaatggagt aagggtgtaa tcggat 406

<210> 28319  
 <211> 240  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C2

<400> 28319

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 aaaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata 120  
 taaaaaaaaa aaaaattaaa taaaaaaaaa tataaatata taaattttat ataaaattaa 180  
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<210> 28320  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C3

<400> 28320

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actcctgaag ctaccaaggg cgctcgccc aatggcaccc aagtcaatgt cttgcagcct 120

tctgcaagtt ttctgccgaa gctgcgttgc aacagaaacg tctcgctcgc cgctgctctg 180

ctgttcctcg tgatcctttg atcacctcaa ctcccatga caatcttttc agaaaccaa 240

tcgacagata tgatagattt tagttaaaact tggtttacgt tgtatgtatt gagttacgta 300

tagtgtgata gtatcacatt cttttggcct gtgtccacag ttccagtagg agttaggata 360

gaacacggga tgagtccata gccctttttt tttgcacgtt cataatgtac ctggtggatg 420

t 421

<210> 28321

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C4

<400> 28321

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gctgtttgta tctgacagc caatggcact gtatctaattg tgaccctgcg tcaaggagag 120

tcttctggtg gaacagtaac ttatgagggc cgttttgaga ttctctcttt ggctgggtca 180

tatcttctgt ctgaaagtac tggcatgagc agtcgaacgg gtggacttag tgtttctctt 240

gctagtccctg atgggcatgt tttagggtgt gctgtcgcag gacctctaac tgcagcttcg 300

ccagttcagg tggtcattgg gagctttctg gctgatacaa aaatggagct tgaccctgga 360

tcagcacctg agaaacatgt tttcagcagg tttcaaacta ccagcagtcc atctaggggt 420

accg 424

<210> 28322

<211> 369

<212> DNA

<213> Zea mays

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<400> 28322

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 gtccgtgccc tatgcacggg aggaaggagg agacgcgctg cggctgccgc atcggtcggt 180  
 gtgcagttag ttgtcctggt agtctatgct acgttgtctg cactctgcaa taacggacgt 240  
 gacccgggga aaaaaactgt ttcgtcacgg gtagctagag aatcacgtaa ggctcttgggt 300  
 ttcgtttgtg tcctataatg tatggctatt ggctgtttc gagagggttaa aatttggagg 360  
 tgctgcatc 369

<210> 28323  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C6

<400> 28323

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 gtccgtgccc tatgcacggg aggaaggagg agacgcgctg cggctgccgc atcggtcggt 180  
 gtgcagttag ttgtcctggt agtctatgct acgttgtctg cactctgcaa taacggacgt 240  
 gacccgggga aaaaaactgt ttcgtcacgg gtagctagag aatcacgtaa ggctcttgggt 300  
 ttcgtttgtg tcctataatg tatggctatt ggctgtttc gagagggttaa aatttggagg 360  
 tgctgcatc 369

<210> 28324  
 <211> 223  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C7

<400> 28324

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 gcatctaagg agctgggcaa agtacttgcc aacttatcgt gaccctgaca acttaatctc 120  
 gctagtgcac tactcatatc tgctcctcct acaaatectt actctaccct atctttcaca 180



ttaacgctaa tcattcttgat ggtctatact tcatcggttta cta 223

<210> 28325  
<211> 312  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C8

<400> 28325

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cagaagacga taagaactga tatagccatg ttcacgcttc catgcgtaca aagaaattga 120  
agaccggtct ccattgactg cgtttactct cttggtcgtg gagtttggtt atcctcatat 180  
aacggtgctt tgattataac ttaccgccga gggaatttgt attatgacac tgcaacaatc 240  
ttctctccat atatgttcaa gggattttcg tgtttcaatg ctctccatat atgttcaatt 300  
gatttccgtg tt 312

<210> 28326  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-C9

<400> 28326

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tgaggaaacg aaaaagagca accatgtcac gaggaagctt gagaagcgca aggagggacg 120  
tacccttgac ccacacattg aggagcaatt tggcagtgga cggttgctgg catgcatttc 180  
ttcccgcctt ggacagtgtg gccgtgctga tgggtacatc cttgagggtg aagagcttga 240  
gttctacatg aagaagctac agaggaagaa gggcaagagc gctgtagctt agagcattct 300  
catggattgt cttgcaccga aatgtgtgtc ctgatgagta cacttttttt ggtagtcgt 360  
ctcaagttca gagcgttatg ccatgttttc agacctgatt agtacactct tttcta 416

<210> 28327  
<211> 371  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D1

<400> 28327

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ttcgctcctt acggcgagat cctcgactcc aaggteatca ccgaccggga gacggggagg 120  
tctcgcggtc tcggcttcgt taccttctcc tccgagaact ccatgctcga cgctatcgag 180  
aacatgaacg gcaaggagct cgacggccgt aacatcaccg ttaaccaggc ccagtcccgt 240  
ggcgggtggcg gtggcggcggt tggctacggc ggcgggtcgcg gcggcggcggt ctatggtggc 300  
ggcgcccggtg acggcgggta tggcggcggt ggcgggtacg gcggtcggcg cgagggtggt 360  
ggcggcggtc a 371

<210> 28328

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D10

<400> 28328

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ttagcactgt tgtaaactcg aaatagttag tgatatgacg gtcggaagca tagcacgcaa 120  
aaacaagaaa tgggacatgg ggtacatcct tgagtggatg aatttatgct gtcatataga 180  
gcgcgaagtc tgcttcctgc gagacaaaaa gctatatgac gttcatacaa gatggtgatg 240  
caggatataa cataagatca ttgcttggtc agagaacagc gacatgtata aaaaatctat 300  
gatggtatta ctgcttagat gtatatttga gactgataag ggcgatgtat tcttggagat 360  
aattgaatat ttattagaaa aggggatgcc gctctaaa 398

<210> 28329

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D11

<400> 28329

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gttgggtatt gagcaaggag ctggaagcag caatggtcag tctgcctttc ccaagtttga 120  
 caatgggagc tcagtggcat taccatctgg gcagggaatg tctgggtctta tgggaaaagg 180  
 ggcaaaatgg cgtgacgggg actggttgtg caacaactgc aacaatcaca actatgcatc 240  
 tcgtgcgttt tgcaacaggt gcaaaactca gaaagaatct gcagttcacc ctgggtgtgtt 300  
 atagcttgct gttggattat tttgttccag gatatgttgc tgctgttct agctccttcc 360  
 tcaaggctgc ggtttgagtt ttttcgattc tgcagtgttt ttgctgctct 410

<210> 28330  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B8

<400> 28330

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 tcgcgatgcc cgtgtatccc cgccgtcgcg cgctacgtc agcatgtacc tggagcagaa 180  
 gcgatttcga cagcattgcc gaggagctca ccgctgtgaa agtgtgttag tcccgtcccc 240  
 tccaggtcct gactctacaa ttcacttggt tattcccccg aagcattacg agacagtctg 300  
 cacggctcct atcaagcaat gaagacaaca tcatggtttg ctttttcagg agcttgaagt 360  
 atggtgatag aaagactact gctcagtatt taaagtgtgg atgtataggt gaaaaa 416

<210> 28331  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D12

<400> 28331

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 acaatgggag ctcaccgaca tataccatgt gtgcaaacaa tgtctagtct tatgggaata 180  
 ggggcaacac gctgtgactg gtaatgcgtg tgcaactact gtagcgagga acgctgtgca 240

tatcttgcatt attgcaacat gggccgaact gataaagaat ttgatgttga cgctgtagtg 300  
 ttatagattg ctgatagact attcagttgc aagatatgtt actgactgtt cttagctcctt 360  
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<210> 28332  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-022-Q1-K1-H9  
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 tggttttgtt gtgtgacagc cagccctacg caatcctgag gaagacaact gcatgcgctt 180  
 tggaaatact gtccctttaa ttttctatac atactatcca taagacaatg tanggggtacc 240  
 caggcctctc cgggctccag gatgggctat ctgtaaaac tcttgctgac gtgtatgtat 300  
 ggtgtgagag aattcgcaaa gtggacttct ggttgtaatt cttagtcgtc tctctctctc 360  
 tctctttggg ttgggtcacg ttctatgatc cagcaatcca ctgaac 406

<210> 28333  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-023-Q1-K1-A1  
 <400> 28333

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 gctgttgagg aagttctccc tgatctgaat ggcaagctca ctggtatgtc cttccgcgtt 120  
 cctactgtgg atgtctcggg tgttgacctc accgtcagaa tcgagaaggg ggctccttat 180  
 gaggatatca agaaagctat taaggctgct tccgagggtc cactcaaggg tatcatgggt 240  
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 gacgccaaag ccgggatcgc tctgaacgac cacttcgtca agcttgtctc gtggtacgac 360  
 aaccagtggg gcta 374

<210> 28334  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A10

<400> 28334

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tctcatatca actaatggcc gtgagaatgt tatttaggct tatataagtt atacagaaga 180
tatttcgtta tgataatgca caaaagttat ggtgtgcaat gaaaggtata tttgagagta 240
atagaaatag actcattgtg ctgcatcctt aactgtaagt ttcttgtgtg cgactcatcg 300
taatcgcagg tgtttcctgt ttccaatttg cagggtgcaa atgtgttttc caccctggat 360
agg tactgta tttcacttat tttcgtttgt tccctgaact gg 402
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<210> 28335  
 <211> 241  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A11

<400> 28335

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cttcatcata aattggaatt gattagacaa atatcaatta tggcatgggc gaatgcgtct 180
tactcttata tatcatatac acacaatctt cagccatgct agtggacaca tattctagtg 240
t 241
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<210> 28336  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A12

<400> 28336

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ccgagactga tggatgatgca atggatgtgg ataagccctc caacgtggct gatggagaag 180  
ctgagcttgg aaccgagaag aagaaaaaga aaaagaagca caagctagag gaggcacagg 240  
agaacggtgc agcacatgct aatggcgctg aagagacca gactccc 287

<210> 28337  
<211> 351  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A2

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cgaggtccag accccgaccg tcgtggcggc cgaggaagcg cccgtggtgg agaccccgcc 180  
gccggccgctc gtgcccagagg agtctgcccc cgccgaggcc gaggtgagg ctgaggctga 240  
ggctgctgct cctgctgctc ccgaggagct tccggcgggc gagcagcagg cagccgccga 300  
gccggaggcc gctgctcctg ctggtgccga ggagcccgcc gcggccgaac c 351

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<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A3

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tctcggttgt tgacctcacc gtcagaatcg agaagggggc ctctatgag gatatcaaga 240  
aagctattaa ggctgcttcc gagggccac tcaagggat catgggttat gtggaggagg 300  
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ggatcgctct gaacgaccac ttcgtcaagc ttgtctcgtg gtacgacaac gagtggggct 420  
acagcaaccg cgtcgtc 437

<210> 28339  
<211> 407  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-023-Q1-K1-A4

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gcgctggccg tgcctctggc ggcgaccgcg gtggctcccc cggccgcggg gcgcgcggcg 180  
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ggggccatgc cgcgccagcc gtgctgcggc ggcattccga gcttgcctgca gcaggccaac 300  
aacacccccg accgccgcac catctgcggc tgcctcaaga acgtcgccaa cggcgccaac 360  
gggagcggca cctacatcag ccgcgccgnc gcgctgcca gcaagtg 407

<210> 28340  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-A5

<400> 28340

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cgcgttccta ctgtggatgt ctcggttggt gacctaccg tcagaatcga caagggggcc 180  
tcctatgagg atatcaagaa agctattaag gctgcttccg agggccact caaaggatc 240  
atgggttatg tggaggaaga tctggtttct accgacttcc ttggtgacag caggtcgagc 300  
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t 361

<210> 28341  
 <211> 296  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-023-Q1-K1-A7  
  
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 caagttccta ctgtaaatat ataaaaataa taacctcacc atcataatca aaaacggagc 180  
 ctactatgag gatatcaaaa aaactattaa agctgcttcc taagatccac tcaagggtat 240  
 catgggttat gttgaagaag atctggttta taccgacttc cttggtaaca acatgt 296

<210> 28342  
 <211> 273  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-023-Q1-K1-A9  
  
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 gcgccagccg cgcaggccgg gccataggcg agtggatcgg catcgagccg tcgacggcgg 240  
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<210> 28343  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-023-Q1-K1-B12  
  
 <400> 28343  
  
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cttataaata gcccaaaaaa ttctcctctt ctgctgtatc aggcattcag agtttcagac 180  
tcacaatatg cacccttcca ttcagatata cgccgttgtc ctctgcatcg taccagctt 240  
cctcagctgc aatgcagaag atgccagagc accccagacc cagagcagcc tggttcttgg 300  
ccttagccat gtcagatccc tgtacacccc atcactgaca ctagtgaact ccacaggata 360  
cgacttcttg gacatcgttg agccagtgc agcatacaca gacggct 407

<210> 28344  
<211> 207  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B3

<400> 28344

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atcatcttat attccaataa aaaataaatc aatacacacc atttcatata aatctaatac 180  
tcttacataa atttatactt aattaat 207

<210> 28345  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B4

<400> 28345

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catcatcagg aacaggctca agtatgctct gaactaccgt gaggtcattt ctatcctgat 180  
gcaacgccat gtacttgttg atggcaaggt caggactgac aagacctacc ctgctggggt 240  
catggatgtc atttccatcc ctaagacaat ggagaactac aggctgcttt atgacaccaa 300  
gggccgcttc cgtcttcacc caatcagggg tgaggatgcc aagttcaagc tctgcaaggt 360  
gaggtccgtt cagtttggcc agaaaggcat cctctacctg aacacctacg acggccgtac 420  
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<210> 28346  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H8

<400> 28346

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tttttcgtag aaggctgcat agttcagtta gaaagcttgg aggcaagtct gcctccattg 180  
gttcctgtga ggagttatatt gaagaagggt ctgcaatgct agaagaaagc ttattttcag 240  
cttcttcaca aatttaagca gaagttctgc caaacagcca gcttctacag cagcttatta 300  
gttcagctgc ttctcagaat acactaaaag cagccaacaa gcagaagctg cctttcacca 360  
gcttctcaga taagctgctt tttcaacaag cagcagctgt gccaaacagg gccttttatg 420  
taacatataa tgtgtgggat 440

<210> 28347  
<211> 131  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B5

<400> 28347

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gaaaacctga gtattcttta tctccacgta tggtcttggt ctgcattatg gcaatggatc 120  
ttctgttttg c 131

<210> 28348  
<211> 227  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B6

<400> 28348

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cggcgaaatt agttacccat gttgggtact atctatgtac tattattata tccaaaacta 120  
tagttgtcct ggctgaattg aactcaaaag gttttgtttg agaaaaaatt gtcccaagat 180  
tggattgctt gttaaagctc aatattgtta ttgaagtgtt attgctt 227

<210> 28349  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B7

<400> 28349

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tttcttctgt gttgctatta ttactactaa taaggtcatt aatcctatca gcgtccgtag 120  
gttgatgatt ttggatggaa atgggatcgg ggtggacggt tggatggaga ttgatgggtgc 180  
ttggttgatt ggaatggaat tattagagag gagaagatgt taggttgagg cttgcaagtt 240  
gggactggac cagagtgtga ctgtgagagg gcaggagcag tttcacagtg actgattgga 300  
acctgctgtg gggaactgtc gcctgccta tcagaaatgg tctccacaaa tgttttccgt 360  
tctacctttt tgaaaaagtc tcaaattatt acattttttg tggcttta 408

<210> 28350  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G2

<400> 28350

gcgagagtcc tcccatccac aagttcttag cttttgcgag attgagatcc ggctggggac 60  
agaccgacag aggaaggtga attgtgggaa agaggacaga aaaatgggga ttggagatgg 120  
atcttcaa at gggaaccagc aaccggtgca taaggaaata cgagatgaga ccacaccact 180  
tcttccagtc aaggtggaag aagacgaagg gtttcatgag ttcaatggag cttcattctc 240  
tggggcagtt ttcaatctgt cgaccacat aattggggct tgaatta 287

<210> 28351  
<211> 426  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G3

<400> 28351

cggacgcgtg gggcacacga gttcttaaatt ttccttttga atgaacttgt tgatattctg 60  
gaaaaagagt caagtgtgtc taaggactca cccaatcat catctccaga aaaagctcca 120  
aatggcccag ttcaaccttt agccaatgga gttaaaaaag aaccaccagt tactctggtc 180  
cataaaaaatt tccagggcat attgaccaat gaaacaagat gcctaagatg tgaaacagta 240  
actgcaaggg atgaaacgtt tcttgatctt agtggttgaca ttgaacaaaa tagttctatc 300  
acaagctgcc tgaaaaatct ctgttctaca gagactttaa acgcagagga taaattcttc 360  
tgtgacaaat gctgcagttt gcaagaagca cagaagagaa tgaagatcaa gaaggctccc 420  
acatac 426

<210> 28352

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G4

<400> 28352

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tgctcccag gcccgcgtcg agtgagtcca gccagcgccg gacggcggcc gatctagctc 120  
gctgcgtcag cctgtcacct ggcgtgcgcc gcgctggtgc cactgccacg gcaacagcac 180  
ggcatggcgc cggcataggt cgctaggaaa aacctgcttt tgtgttcggg ttcacgtcgt 240  
gtcctacgtg gcgcggcggg ccccgccatag taaaggagcg taggagcgtc gttttgtggt 300  
gtggtcgaat aaataatgtg tctgtgtgcc gatcccggtg cgggttagtg ggcccactgt 360  
cgggtgctgat gtggcctgcc tttacagcac atcgggtggg ctgg 404

<210> 28353

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-G5

<400> 28353

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tgggagtggg ggtccagagc cgccggcgac gcaagcgcat gatgtgcctc agcatccgca 120

accggagccg gagccacgtc tgcctcagca gcccgagggg ccatatgtct atcagccgcc 180

gaagcagtcc tcgtcgtcgt cgtcagggac gaagaggcca gctggagcgt cgccgacgct 240

catcaggagg aaggagaagg cgaagaagct gctggcggtc tgcttaacct tgtgctgcat 300

cctgttctgg cttctgggtg tctgcatcgg gctcgccatc ctgggtggtg accttctgta 360

ccacccaag gggccccgga tccacgtgag caccgncacg ctcaacgccg ggtacatcga 420

<210> 28354

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G6

<400> 28354

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tcgaattaag ctctccgagt ctccggttcc ctctctcgg cggcgggtca ggtccctctc 120

catcttcggc gcggcgctcg gcgtctgacc tcaacacgca agaaagcaaa tggcatgcgg 180

cagggtcgcg catgccaccc tcaagggccc gagtgtggcg aaggagatct tcattggact 240

gaccctgggt ctgatcgag caggcatgtg gaagatgcac cactggaacg agcagaagaa 300

gactagggtc ttctatgaca tgcttgacaa gggccagatc agcgttgctg tctaagagta 360

aagagttctt ccagatatt ttcaaagaac tctctcgaga gcatgac 407

<210> 28355

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-G7

<400> 28355

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gctgagtagc ctgagcggag cgtcgtcctc tgcaccttat agtaagaggt tgaactttcc 120  
 acatcgggtg gcatcactga tgagatttag ggaaaagcgg aaggagcgga actttgataa 180  
 gaagatccgg tacaatgtcc ggaaggaagt tgcacttagg atgcagcgta atagaggtca 240  
 gtttacatct tcaaaaccaa agcctgatga aatagcagca tcagaaatgg cagctgcaga 300  
 tggctctctg aattgggcac tagttgaagg ccgacctnca tctgctgctg aatgtcatca 360  
 ctgtggtatt aatgcaacag ctacaccaat gatgcgt 397

<210> 28356  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G8

<400> 28356  
 cccacgcgtc cgcccacgcg tccgagcaga ccggcaaggt ccgcctagtc atgcgccagg 60  
 ctaaaacgct taagatctgc gcgaaccacc tcgtggcctt caccacgaag atgcaggagc 120  
 atgcgggcag cgacaagtcg tgtgtttggc acgctgctga ctttgccgat ggcgaaactta 180  
 aggaggagat gtttgccatc aggtttggtt cggtagaaaa ctgcaagaag ttcaaggagt 240  
 tggttgagga gatagctgag tcgcttacia agaacgaggg caaggaaggt gaagatggtg 300  
 gttccacggc tggattgctg gcgaagctca ctgtgagcga gggcgaatct gatggaagtg 360  
 gcaagtctga gtccactgat tc 382

<210> 28357  
 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H1

<400> 28357  
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 acagatatat atatatatat atatatatat agtatttggt taatatataa ctctgctagt 120  
 atatatagta tttgttctga attcaaaaag aaaaaaaaaa aaaagcaaaa agagcaaaac 180  
 aaaaataaaa aaaaacagaa cagggggccg ctataaagga gcccatatta cgcaacccgt 240

tataggaaaag catacatctt ctaaacgaga ccctgaagaa aaatcaacgg gccgactttt 300  
 accaagcaca gggctgggaa aaaccgggcc taaccc 336

<210> 28358  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H12

<400> 28358

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 caaggacatt ttccaggagg tgtatgaagc tggttggaaa accaaatttg aagctgccgg 120  
 catatggtat gagcaccgcc ttatcgatga catggtagca tacgcactta agagtgaagg 180  
 agggtatgtc tgggcttgca agaattatga tggagatgtg cagagcgatt tcttagctca 240  
 aggttttggc tcattggggtt tgatgacttc ggtactgggtg tgccctgatg gaaagacgat 300  
 cgaagctgaa gctgcccacg gtactgttac ccgtcattac cgtgttcacc agaaaggagg 360  
 tgaaactagt acgaacagta ttgcctcaat ctttgcgtgg acaagaggac ttgcacacag 420  
 ggcaaagc 428

<210> 28359  
 <211> 226  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H3

<400> 28359

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 atcgacctca gcgaccggc gctctccctc gacctcagg tgacgatcgc gtcgcggaac 120  
 ccgaacgagc ggggtgggct gtactacaag acgctggacg cgttcaccac gtaccgcgac 180  
 gaggcggtga cggccccgt gtcgatgccg gcgatctacc agggcc 226

<210> 28360  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H5

<400> 28360

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cgtcgtcctc gagctcggcg cagcgggcag ctgccgcact gctcgtggcc gccgccgtgg 120  
cgggtgtccgt cctggtggtg ggcgcgggcg cgggtgtgca catgagcaac gagcagttca 180  
tgtcgtgcc a gcccgcggcg gccaaagacga cggacccgcc ggccgcgccg tcgcaggcgt 240  
gctgcgacgc gctggcgggg gcggacctca agtgccctgtg cggctacaag aactcgccgt 300  
ggatgggcgt ctacaacatc gacccaagc gcgccatgga gcttcgggcc aagtgcggcc 360  
tcgccacgtc cgccgactgc tagcagtgtg ctag 394

<210> 28361

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H6

<400> 28361

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agtacgcgtc catccaagcg gtgctgttcg gaccgcacct cctcgccggc ctgacacacg 120  
gcaagctgcc agtgacagac agcagccact ccaacgacgg cctgaccgca ggcatctggg 180  
aagtggacgc cacaggcgcc gcctccgtcg ccggctgggt caccocgctc cactccgaga 240  
cgctcaactc acagctcgtc accctgaaac agagcattgg cgggcgcacc ctctcttgt 300  
cgggtgtccat cgctgacgcg aagctggaga tgcagcagca gcccgcgcc gggaccgacg 360  
cgtgcgtgca cgccacgttc cgcgccta 388

<210> 28362

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H7

<400> 28362

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gacccacaag agcaatgcat acttcaagcg tttccaggtg aagttcaaga gaaggcgcg 120  
 tggcaagaca gactacaggg ccaggataag gctgattaac caagacaaaa acaagtacaa 180  
 tacacccaaa tacagatttg ttgtgcgatt taccaacaag gacatcacag cacaaatcat 240  
 ctctgctagt atagcaggtg atatggttct tgcttctgct tactcgcatg agttgccacg 300  
 atatggtctt gaagttggtc tgaccaacta tgcagctggc tactgcactg gccttctgtt 360  
 ggctc 365

<210> 28363

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G12

<400> 28363

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 agcgatggcg cgcggcgtgg tgcggcgaa gggcggcgcg gtcgcgggca agaagaagg 120  
 gtcggtttcc ttcacgatcg actgcaccaa gccagtggag gacaagatca tggaggtcgc 180  
 ctcgctcgag aagttcctgc aggagcgcat caaggtcgcc ggcggcaagg ctggcaacct 240  
 cggcgactcc gtcaccatct ctcgcgagaa gaccaaggtc accgtcacct ctgacggacc 300  
 cttctccaag aggtacctga agtacttgac caagaagtac ttgaagaagc acaacgtgcg 360  
 ggattggcta cgcggtggtg ctgccaacaa ggaccgaaac gtctatgagc t 411

<210> 28364

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E8

<400> 28364

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 tccagatctc ctttcgcagc cgccgaggaa ccccttcaca gcgcggaaga tggctgaaca 120  
 ggaggcccca gtcgtggttg aggcaccaac cccagttctt ggggagccta tggacttgat 180  
 gactgctctg cagctcgtga tgaagaagtc aagtgtcat gacggacttg tgaaggggtct 240

ccgtgaggct gccaaagcca tcgagaagca cgccgctcag ctttgcggtgc ttgctgagga 300  
 ctgtgaccag ccagattacg tcaagctggt gaaggcactc tgcgctgagc acaatgttca 360  
 cctggtcact 370

<210> 28365  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E9

<400> 28365

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 gtgcagatgg agtcctgggt ttctctgtca aattcataac aatcataact tcagtgcagg 120  
 gtccattgaa actgatagcc tgagtgagag gttaagttta attaagtttg aaattcagct 180  
 gtacaaaaca agagacgaga aatacctcct cgatttgcaa agagtcagtg ggccacagct 240  
 cctctttctg gacttgtgcg cggcctttct aactcaactg agagttcttt gatttctgggt 300  
 gtcagctttc catcagttgc attccttgcg tttcactaga ggaatgtcta aatcgctcac 360  
 aaagctgtaa atagtaatct ccagtagatt ggattttctg gagtatgtag 410

<210> 28366  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F1

<400> 28366

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 tctatggcat gaagtgtgct gatgagaact tcaagatcaa gcacactgga ccaggccttc 120  
 tgtccatggc caatgctggg agagatacaa acggatctca gtttttcatc accaccgtga 180  
 caacaagctg gttggacggg aagcatgttg tgtttggcaa ggtgttgtct ggaatggatg 240  
 ttgtgtacaa ggtggaagct gagggccggc agagcgggca accaaagagc aaggttgtca 300  
 tagcagatag cggcgagctg ccgatgtgat gagctgaact gatgttctat ctggaaggat 360  
 gttaagaagt tgctggtgac catttgcgt tctggaactt ttat 404

<210> 28367  
 <211> 247  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-F10  
  
 <400> 28367  
  
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 ttccatccat ccatccattt aattcttttt acactcgagt cattgaaatt ttgttctggg 120  
 agttttgtga ttgatttggg aggttggaga tgattgtagt agagatgcca ttgtttgtgg 180  
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 caagagt 247

<210> 28368  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-F11  
  
 <400> 28368  
  
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 ctacggtcaa tacgctgcat ccatacactc ttacaccatg cgccacatga tctatgatga 180  
 ctgctcatac aactgaatcc ctgttactaa cgttaactcc aagatcctat ccaatgtaat 240  
 cgagtactgc aacaagcacg tacatgccgt cgacgtcgcc gtcgtcgctt cgaatgccgg 300  
 ttccgacgac gtgggtgcct tcttcgtcaa cagtaccgac ggcttcgggtg aggaccttaa 360  
 gaactgtgat gcggacttag tcaagggtcga acaggccacg ctt 403

<210> 28369  
 <211> 420  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-F12  
  
 <400> 28369

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gagctagcag ctcgctctgt cctgcaacaa tggccgctcg ctcttgcctc cagcagctgg 120  
tcgcggcgcc tggctcctggc agcggcgctg ctgctgctgg cggcggtggc cgggacggcg 180  
tcagcggcgg tgagctgcgg cgaggtgacg tcgtcggtgg cgcctgcct cgggtacgcg 240  
atgggcagcg cggcgctgac ctccgcggcg tgctgcagcg gagtgcgctc gctcaacagc 300  
cgcgctcgt ctgccgaaga cgggcaggcc acctgcaact gcctcaagag catgacgggc 360  
cggctcggca gcggcgctcag catggccaac gccggcaaca tgcccggcaa gtgcggcgctc 420

<210> 28370  
<211> 459  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-022-Q1-K1-F2

<400> 28370

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ggaatactga cagggctgat gcatataggc ttactcgctg agaggacaac aggagggttg 120  
ctagagatat ggagaagcca caggagcaac cacgcccaga gcctgagacc tggcgtaagc 180  
cgggtggagcc tccaaagcta gaggttgcaa cacctcgttt tgggaaagca gcaaccgcgt 240  
tggagctcgc ccaggccttc tcaacgtcta tgtctgatac tgcaccacag agccggttga 300  
ccagtgcctc cagtccaaga gttcctccta gcccaagggc tagtagggat cagtctggct 360  
tttcaaggct cactgacagc aggacgttac actcggggccc tttccagcga aagatanatg 420  
gctactgata gctggcacac atattacatg tgccacgat 459

<210> 28371  
<211> 341  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F3

<400> 28371

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tcgtgctcgt ggtgaagccc cgtaagccgc aaggtcgacc tagaccaagt gtacatgcaa 120

tacatgctgg tggcctcgcc gacgtcaggc gccagcctgc ttocatcgac cccaggcgcc 180  
gactacatct gcatcaacat gacgttggtc ttaaccggcc agaaccctaa caaggctcggc 240  
atccggtaca gcacgaccaa gtctgacgtc atgtaccacg gcgtgccgct cgagatggcg 300  
gcagtgcccg ggttcgagca gcccacgcac agcaccggcg t 341

<210> 28372  
<211> 276  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F4

<400> 28372

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cgatgtctac aaccgcgacg atcaccacgc cgatctgtat aaatgcctta acgacacgac 120  
atccagtctc ttgcttgcca ctatggcact gcaatgctca aggctccttt tgctgaccat 180  
catgcaccaa tggctgcctt tctaacatt ggtggccgct ctcgacacac tgccgtcact 240  
gtctggaccg gaccacaaga cgcatttgcg ggccat 276

<210> 28373  
<211> 255  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F5

<400> 28373

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaa aaaagagaaa aacaaacaag attcaaagat tacatcacia acagagcaat 180  
ccaactgaat aaacataaaa gcaagtaaaa atcagcaaaa tgcccaacaa gatccaacgt 240  
tcgggacagg gaaaaa 255

<210> 28374  
<211> 379  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F6

<400> 28374

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gaggagagga ggggagggga tcggctccaa gggaacaggt gagatggcaa tcctgtacgc 120  
gctggtggcg cgccggcacgg tgggtgctggc ggagcacagc gcggcagcca ccaacgcggg 180  
cgctatcgcg cgccaggtcc tcgagcgct ccccgacggc ggcgccgaca gccacgtctt 240  
ctacacgcag gaccgctacg tcttcacgc caagcgcacc gacggcatca ccgcgctctg 300  
catggccgac gacgccgccg gaagacggat tcccttcgca tttttggagg atattcatgg 360  
aaggtttgtc aagacatat 379

<210> 28375

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F7

<400> 28375

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cgcgagttgc ggtctcgcg cccctccac cgaccgccgc ctctcaca cgcggaagc 120  
tgcttccctc tcattggac gcggccagct tccatctctc ggtcacctcc ctctacatcc 180  
cacggccgct accaccttcc ctctacctca cacggccgcc ggcctctcca aggtctgcac 240  
acgcattcag cgacgcattt gctatatca gcaactgtgt cataactcta gtagagaaag 300  
gagaagatgc aagcatctag ggcaaggctt ttcaaggagt acaaggaggt acaacgagag 360  
aagtcagctg accctgatat ccaattaata tgtgatgatt ccaacata 408

<210> 28376

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-F8

<400> 28376

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gcccgatcgtc ggacggttcg ccgccagcca gaaggagttc ttcaggagct tcgccaggtc 120  
catggtcaac atggggaaca tccaggtgct gacggggagt cagggtgaga tcaggaagaa 180  
ctgtaggatg gtcaacggaa gctagacccg tcgacggcac aagttactgg tgaactgaaa 240  
gcagttctgc tgtatgtacg atgcctcaaa catgttgatg ggataatggg gcgccgatcg 300  
atttatttgt caaggagatc caataaattg gttatttgca tttttttcaa caaaaa 356

<210> 28377  
<211> 407  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-022-Q1-K1-F9

<400> 28377

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agcgaggaac gtgatcagaa tcagccagtg gtgcttgtga cggggtgctc ggagggcggc 120  
atcgccacg cgatggcgcg cgccttcgct gcggccgggt gcgccgtcgt ggccacggcg 180  
cggtcacgcg gttccatgcg cggctctgac ggcgacccgc ggttcctgct gctggagctc 240  
gacgtgcgct ccgacgagag cgcgcgcgcc gncgtggcgg gtgcgctgcg ggagcacggc 300  
cgcatcgacg tgctcgtcaa caacgctggg gttcacctcg tcgcaccact cgccgaggtg 360  
cccatggagt ccttcaccca ggttttcgac accaatgtct atgggtgc 407

<210> 28378  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G1

<400> 28378

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cagtgcacca ctttcctaga gcatgtcggg tgtttgatga atgctggttg atgaagaaac 120  
ttaagatcga caatttttta tttgagattc ctttcgcaac tccaaaagtt tagatttgtt 180  
gcctctgac ttgaaccagg tgtcggcgca ctgcttgtgg gcgtaggata agtccccctt 240

gcaggagcag tgcagcgtga tgccggcacc ggactcggcc gccgtgctct ccaggccaag 300  
 gtggcaaatg cgacagttct gtccggcctt ctcagggctg gccttgatga tctcgctcag 360  
 tccggccttc aggtcaacgt cgtccagcga gccctctgac acgcacg 407

<210> 28379  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G11

<400> 28379

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 ggcgccggac gtccggggga agaggatgaa ctggatcggg cgcaagatcc acctctacaa 120  
 tgtcaccatc ggccctctaca tgctcgattg gtgggagcgc tacctcttca atattttgat 180  
 ggtttgcctc ttctgggtaca ttctccgcta tctccttggg ttcttccaaa gtaatgtgaa 240  
 gactcttttc caagagggga actaccttgg gcaaggcagt acataaccat tgtcaaacaa 300  
 gatctgctta tgatcatttg ccccatgtaa ttccatgtgt ttaattagtt gttaactact 360  
 taactgagga gctgagaaga agtaatttaa gcaagtgtta cagtgtg 407

<210> 28380  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E7

<400> 28380

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 aaaacaagca gtttcatcaa atcctgggtg tccaccatct tcattaatgt cattcatagg 120  
 gaagaacacg tcaacttctg gagttgtgtt ggaggatttt gattctcact tctccaatag 180  
 attttatcat agctatctgg ataaccctgt aaacatcaat tcctcgtcaa tagctgcagc 240  
 cgctgctttg gttgccaggt cgctgtatat tcttgctagt gatgactcag ttgttgacct 300  
 tataacacta aacactataa aagtgaacgt ttcattggtc gaagaactta ttggatgcct 360  
 gcttacttgc aatccttgtc tttcgtg 387



<210> 28381  
<211> 360  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D12

<400> 28381

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tggttttatgg acagtggctg aaggacgctg gccaacattc tgtaagagcc gaggatctcg 120  
ctcagctggt gttgaatgtt ctacagatgg cgattgggga agctgagagg aacacagacg 180  
atctgctgga ccagttgaca gagctcgact atctgctcct tgtgctccac ttgatcacia 240  
acctgctgct gaacagtctc attgagcaaa tcagattgct gctcatggta ccagactgac 300  
cagtaactac cacaggaccg atgttcagaa caccagcggc tgtcttacgg actgtgcttc 360

<210> 28382  
<211> 397  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-022-Q1-K1-D2

<400> 28382

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tgccatcata tcgtacgtga gcccgccga gagcgaggga gaggcattgc tgctccgaag 120  
ctcgcgacgc tggcgctggc cgtgctcctg gcggcgaccg cgggtggctcc cccggccgcg 180  
gtgcgcgcgg cgatgtcgtg ctccaccgtg tacagcacgc tgatgccgtg cctgccgttc 240  
gtccagatgg gcgngccat ggccgcccag ccgtgctgcg gcggcatccg cagcctgctg 300  
cagcaggcca acaacacccc cgaccgtcgc gccgtcgcgc tgcccagcac caacgttaac 360  
tgcaacacga ttaattaaat gaggcgtncct gtgcgcg 397

<210> 28383  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D3

<400> 28383

cccacgcgtc cgccagaaaa gtgtacaacg aactttctgc ttcagcagtt accattcaat 60

caggattgcg cggcatgtgc gcgcgtaaaag agctccactt cagaagacaa acaagagctg 120

caatcatcat ccagagtcgc tgccgtcaat tcttggcgag attgcattat tcaagaacaa 180

agaaagctgc aattactaca cagtgtgcgt ggagagggaa agttgctaga aaggagctcc 240

gcaagctcaa aatggctgcc cgggaaactg gtgcattgca agctgccaaa aataaacttg 300

agaaacaagt tgaggagctc acgtggcggc tacagttgga gaagcgcgtg cgagctgatc 360

tcgaggaaaac taaatcaciaa gaaaatgc 388

<210> 28384

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D4

<400> 28384

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acgagggcct gccagtgtgc gcgcgtgaac aagccatgtt tactatgaag cacgggaact 120

gcattcatca tccaaagctg tttctgaaaa accttgctca gattgcatga ttaacaaact 180

tagagagctg atattactac acaatgagcg ttgagaggta atgttgctat acaggagctc 240

tgaacgctca aaacgtctga ccgtgtgact tgtccatggc acgctgtcaa cacttaactc 300

gagaaacaag ttgaggagc 319

<210> 28385

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D5

<400> 28385

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gatttgacaa ggctgttagt ttgcacctcg gatctgctta tatccacagg gcaatcgata 120

gttcagcaag tattgagcta tacctatgtc ccgagaagat tagatgagtt ggcgtcttgg 180

cgatcgatgt gggcttttcc cgttggtgtt ccttgcaatt ttttttcgaa aaaaaaagaa 240  
 acatgttcgc ttttaagcttt 260

<210> 28386  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D6

<400> 28386

gcctgacatc tgtcttccag ggctctcaga cgtcattgga agttataaaa gcggcaaagc 60  
 actacaagct atttcagcgt gcgacccatg tctactctga agcaaggaga gtttatgctt 120  
 tcagggatac tgtctcttca aaactcagtg aggaaggcaa gcttaagaaa cttggtgatc 180  
 ttatgaacga gagccattac agctgcagcg tgctatacga atgcagttgc cctgagctgg 240  
 aagagcttgt gaaggtctgc agagacaatg gagcactggg agcacgtctg acaggagctg 300  
 ggtggggtgg ctgcgcgggtt gctctggtca aagagcccat cgtccctcag ttcattctga 360  
 aactaaagga aatgtactac aaatcaagga ttgacagggg agtaatcaaa gcaggatgatg 420  
 t 421

<210> 28387  
 <211> 157  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D7

<400> 28387

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 tgtgttcttg tacttctgag ttttgtacca gtagcgaacg tttcattgtg attgaagtct 120  
 tcctgcaaaa tattataaga tctaagaaag ttctatc 157

<210> 28388  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D8

<400> 28388

gataagccaa gcagaggtgg acggtacacc gtgtaagtcg cacacgaaga tggtcgttgt 60

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aatacagcct cagcttacct gaggcaattt tcgcacctgt tatgatgttg ttttgccttc 180

agatagggtt atgtagcaca agaaagatat gttggagacg ttgacgattt tgtatgcaac 240

taaatttcta tcttaatatg ccccgattca acagc 275

<210> 28389

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-D9

<400> 28389

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cgccgccgga aggcagacgt cgacgtggtg ctccggcgga ccgccgagta catctgcgcg 120

ctggagctga aggtggcact cctccggagg ctctctcaca tgtacgggtg gtagcctgtg 180

ccgccggtca cccacgccat tgcttccac cccccacc aaagtagtag cccctatata 240

tgcgattggt tatttggtcac atatggtcat atggacgtgc gtgtgtgtgt gtgtgtctag 300

ctagtagtta agatctggct ggaagaaaag ccagcccccg gcccgttgct ccagctctga 360

gtgcaagaga gagagagaga gatgctttcg ctgctggtgg ctgtgtcaat 410

<210> 28390

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E1

<400> 28390

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tcgcaaatat ctgacttctt gaccaagtat gcctacaagt gatgaaagaa gtggagcgct 120

acttggttaat tgtttatggt gcatagatga ggtgcctacg ggaaaaaaaa agctttaata 180

gtatttttta ttctattttt gtaaattgca tttctgttct ttttctgtc attaatatt 240

tatatttttag ttcaaaaaaa aaaaacctga atggtagaat gggacgcaac actgaaaagg 300  
aacataaagc acagaagatg taaaggatac gcacaagagt gaccgataaa aaaaaggggg 360  
ggccttttta aa 372

<210> 28391  
<211> 357  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-022-Q1-K1-E10  
<400> 28391

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actcgccgga gctgccgctt gggcacgcgg cgcggctggc caagaaggcc gagtgccggg 120  
ccatcttcat cttcggcgcc gaggagaggt cgctccacaa catccgtgac ctcgtcgagg 180  
ctgcgcgaca cacgcttggg ctgctcaacc gtggccgcct cccgtagaga ggaacgagga 240  
atctatctgt aagatttggg tctggtgcgt gccgatgaat ggctaaattt gtctgttcta 300  
gtataagcta ctatcaatat actgtacact tgctaattaa aagaaagaag ttttatg 357

<210> 28392  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-022-Q1-K1-E11  
<400> 28392

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agaacgccag gttcaggatc gttttcatcc atggcttctc ctccaccaag gagagcgggt 120  
tccccgtgtc ccaggagctt gtggagcagc tgggcatata catgctcttc ttcgacagag 180  
ccgggtacgg cgacagcgac gccaaaccga agcgtgcct caagagcgac gccacggacg 240  
tcgaggagct cgccgacgcg ctgcagctcg gggacagggt ctacgtggta gggtgctccg 300  
tgggcgggta cccagcatgg agctgcctca aatacattcc caacaggctg gccggagtg 360  
cactgcccgc gccggcgggtg aactactggt 390

<210> 28393  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-E12  
  
 <400> 28393  
  
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 tgtgggaaca aaattcatca agcttgatgc tgaaaatgct ccattctttg tagccaaact 120  
 ggcaatcaaa accttgccat gtgtaatat gttcaagtaa gtgtacaagt tattcattac 180  
 tctacctat ttgacaatgt tttttgctgt ttggtaccct gcaatcttcc tacttcacca 240  
 tactatcatc cctgtcctat ttcaggaagg gtattgctgt tgaccgggta gttgggtttc 300  
 aagatctcgg aagtaaagac gatttttcaa caagagcgtt ggaaaacatt ctcaagatga 360  
 aagggataat cgatgagaag aagaaagatg acgacgatga tgatgaagaa ag 412

<210> 28394  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-E2  
  
 <400> 28394  
  
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 cagcctcgcc tgctgctgcc tgctcatgtt cctgctgctg tcagcgcagc agcagcaggt 180  
 ggcgggcttg tccaagttct gccgctgcta ccggaactgc tacaccgact gcaggaagtc 240  
 cacggggcgc tacccttgca acgccaactg ctttcaggac tgcataacg ggatgctgcc 300  
 gccggctccg gcggaggtcg tcgtccccgc cgactgccgc gacatctgcc tcatgggctt 360  
 ctgcggctcc atggagatcg ccggtgacgc cgtggctggg gatgccgagg cgtgtgt 417

<210> 28395  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-E3

<400> 28395

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caccacgcgtc gtcacctcca ccatccaggc caccgctcagg gacgacgacc cgctcgccgt 180  
ctacgcttgc tccaagttcc tgcagcctaa ggagctgttc aaggccaaga ccgctgatct 240  
cgcgcttgcg ccggctccgc aaggggccaa gaagaagagc aagaagaagc ccaccggcac 300  
ctcggcgggc ttcgcgcctt cggacgatga atctgcagat ggcccgtctg ccgacgacga 360  
ctcgtncgat gatg 374

<210> 28396

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-E4

<400> 28396

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actaaaggca caagccgaca tatggcggtt cagcctctcc tacctcacgc ccctgtcact 120  
gaggtgcgcc gtggagcttg gcatccctac ggcgatctac cgccatggcg gggctgcctc 180  
agccgctgag ctggtcacgg cgctgtctct cccctccact aagctgccgt tctccgccg 240  
cctgctgcgg ctctcgccg cgtcgggctt gttcacgcgc gacaagcaga gtcggaaga 300  
agagcggtag cgcacagcc ccgtgtccta cctcctggtg gacggcatcc ctcacgagga 360  
ccacatgaac caca 374

<210> 28397

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-E6

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gtcgcggcgg cggtcctggc agcggcgctg ctgctgctgg cggcgggggc cgggacggcg 120  
tcggcggcgg tgagctgcgg cgaggtgacg tcgtcggtgg cgccgtgcct cgggtacgcg 180  
atgggcagcg cggcgctgcc ctccgcggcg tgctgcagcg gggcgcgctc gctcaacagc 240  
cgcgctcgt cgggcgcgga cgggcaggcc acctgcaact gcctcaagag catgacgggc 300  
cggctcggcg gcggcgctcag catggccaac gccgncaaca tccccggcaa gtgcggcgctc 360  
tccgtcggcg tgcccatcag ccccacgctc gactgcacca agatcaactg atcg 414

<210> 28398  
<211> 343  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-022-Q1-K1-D10  
<400> 28398

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gacacgtagt tcgctggtgt ctgattgaat ctgggtctgc tctagtcgat ttggtcccta 120  
gtagtatgta acaggagaag ataagagttt gttggatgtg cttgaaagct tcgtcctgtt 180  
ctcgcttccc caaccattct agagtcagaa ttccatgtca ttcaagctga tcttctcatt 240  
catcgttttg ctgcatagtg cgtcttggtc caattgtctt catttaggtt ctagtttgag 300  
aaccctatth tttcaatgga tttttattht tacaaaaaag aaa 343

<210> 28399  
<211> 405  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-022-Q1-K1-B12  
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caggtggtgt ggacccccgt agacgtcatc agccagcggc tcatggtcca gaccccgac 180  
gcctgccgct accgcggcgg cgcggacgcc ttccggaaga tcctcctcgc ggacggcgctc 240



cgcgggcctgt accgcggggtt tggcctgtcc atcctcacct acgcgccgtc gaacgcggtg 300  
 tgggtgggtcca cctacgccgt ggcgagcggtg tgcctgtggc gcgccgtggg gaccgagcgc 360  
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<210> 28400  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-022-Q1-K1-B2

<400> 28400

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 ctctgtctcc agaagcagct caaggatctt gcgaagaacc ccgcggatgg gttacacgnc 180  
 aggcttgtaa accacagcta catcttcgag tggcagggtta ccatcatcgg accgtctgac 240  
 accctatatg atggaagcta cttcaatgca ataatgacct tggggccagaa ctatcccaac 300  
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<210> 28401  
 <211> 215  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B4

<400> 28401

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 acacatggca gatcgatcat cctttgcctc aaatgaagta cacatattgc tagtagctcg 180  
 ccttctgcat gctttgggat atgtatgctt caata 215

<210> 28402  
 <211> 385  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B5

<400> 28402

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tcctaacttc ggcattgata ctatggaaag gattggctgt cgtaacaggg agtgagtcgc 180  
cggttgtggt ggttctatct ggaagcatgg agcctgggtt tcgaaaggg gatgtcctgt 240  
ttctgcacat gaataaggac cctgtccgca caggagacat agttgttttc aatgtcgagg 300  
gccgtgatat tccaattgtc catcgtgtga tcaaagttca tgagcgccat gatacgggtg 360  
actctgacat tcttacgaaa ggtga 385

<210> 28403

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B6

<400> 28403

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agcgccaaga aggcgctgga ctgggccatc gacaacctgc tccaccacgg ggacaccctc 180  
gtcgtcgtcc acgtcctgca ccacggcgcg gaggagacca agcacacgct ctgggccaag 240  
tccggatccc cgctgatccc actctccgag ttccggggagc ccgaggtgat gcagggttac 300  
ggcgtgcgcc ccgacgccga ggtgctcgac gcgatcgaca cggcagcgcg ccagaagcaa 360  
ctgaaagtgg tggcgaaact gtactggggc 390

<210> 28404

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B7

<400> 28404

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aggaatgtgg tgtttggggg gcagctcacg gagggggccg acggcctcaa caagacgaag 180  
 aggaagacgg gtcctcgcc caaggggaag gagacaacag ggaccgggat atccaaggcc 240  
 gagagcgccg tcgcaactgc ctcccgatg cgtcaggcta gccagatcac cttttcccag 300  
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 cttagccata ccgtcgagag tgagggggac aagtagat 398

<210> 28405  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B8

<400> 28405

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 atctccatgc tctcctgtga gccactcggc agagtgagga ttactaggta gggaggcatg 180  
 tcatgtgtc caccctccac tggtagagt caatcaacta aagctacccc cggattgatg 240  
 aggaacatcc cgcgcgatta gtggggcatg tcatt 275

<210> 28406  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 28406

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 ggtctacggc tccatctggg acgcctnaga ctggggcacc gacgacggcc gncaccgcgc 180  
 cgactaccgc taccagccct tcgtcgcgcg cctcgaccgc ttctgtctcg ccggctgtc 240  
 cgnnacgcgc cccgccgct gcaggccgt gccggcgctc cccgccccgg ccgggctcac 300  
 gccgcggcag tacgcgggca tgcgtgggc gcagcanggc cacatggtct actactact 359

<210> 28407  
 <211> 409  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-C10

<400> 28407

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 tgccgggtggc atgcgcggtg gcgttcgtgt gcttctcggt acggtgaaac ctttattgcc 180  
 gttcctgccg cactttcctc atttcttgag actttggccg ttggacggtg gactctgcgg 240  
 gatccccaat ctctgctga gcttccgcac agagggcggg catggctgga aggcatacca 300  
 tcattctcat gcaaccatca cagaacagat cgacgaggac atttatggac tacgattcag 360  
 ttaaccactc gctggatgga atatgtggtc ttacgaaag gaaaatcag 409

<210> 28408  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-C11

<400> 28408

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 gatggtgaga aggacggtgc tggcggcgct gctggtggcc gccgccctcg ccggcggcgc 180  
 gcgggcgcag ctcaaggagg ggttctacga ctactcctgc ccacaggcgg agaagatcgt 240  
 caaggactac gtgaaggcgc acatccccc cgcgcccgcac gtcgcctcca ccctgctccg 300  
 caccacttc cagactgct tcgtcagggg ctgcgacgcg tcagtgtgtc tcaacgcgac 360  
 gggcggcagc gagggcgaga aggacgcggc gcccaacctg acgctgcgcg gcttc 415

<210> 28409  
 <211> 145  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-C2

<400> 28409

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attgattatg caattatttt atgtc 145

<210> 28410

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-022-Q1-K1-C3

<400> 28410

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cgcccgcccc accgcaaggg gaaagcaacg aagaggggtg ccatggtcag gggccttctc 180  
agagagggtg ctggctttgc tccttatgag aagcgtatca ccgagcttct gaaggttggc 240  
aaggacaagc gcgctctgaa gcttgccaag agaaagcttg gaactcacia gagggcaaag 300  
aagaagagag aggagatgat gggcgtntc aggaagatga gatcggctgg tacgcacact 360  
gacaagaaga aataaagcat ttcaagttca tgaatgtggc agccagagat ta 412

<210> 28411

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-C4

<400> 28411

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agaaaagggc aaaaacgtga ggaaatcaaa tcaaaataaa cacatacctc cgaaattggt 120  
tcaccgttat catgcacca aattttaatc cccttgcttt ccacttgata gacctcttct 180  
tgggaaacct aaattcattc tccagttcca atagtttaca aaaatattcc tctttaaaac 240  
cctggcctaa tccactttaa tcccc 265

<210> 28412  
 <211> 184  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-C5  
  
 <400> 28412  
  
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 cctgggcggtt cgccggtacg agcgccggac cgagctcacc ttaaccgacc gccccatgtg 120  
 ggtctacggc tccatctggg acacctacga ctgggggcacc gactactgac gggccccgatc 180  
 cgac 184

<210> 28413  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-C6  
  
 <400> 28413  
  
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 tttgacctgg cgaaatcgaa tcagaataaa agaaagctct gcacttcggt catcgagagc 120  
 atccatagca agaggaagcg gctgaggttg gctcgggtga gcaacatggc ggagaagctg 180  
 acgccggagc aggtggacga gtgcaaggaa atcttcgacc tgttcgacgc cgacgaggac 240  
 ggtcgcacgc ccacgggcga gctcgtgacg gcgctgcgct ccctggggcca gaacgtggac 300  
 gaggcggaag cgcggcgctt cctggaagac gcgggcatcg cggcggggcg cggcgaca 358

<210> 28414  
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 <212> DNA  
 <213> Zea mays  
  
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agttcgggta cctcgagagc atccccgggg tgctgctccc gcacccgtcg tcggcggggc 180  
 tgttcgcggc cgggtgggtgc gtggggcccc cgccggacat cgccgcggcg tggtcgtcgg 240  
 gcctgatgcc 250

<210> 28415  
 <211> 355  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-022-Q1-K1-B11  
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 aggtagggat gcataccaag tctgaggatg atgcctttgc ttaaggtttt tctaccttgc 180  
 tagaacatat ctgtggttag aactttgtca gaactacgtg caatctgttt gaatgcttca 240  
 aacctttgtg gtggaacctt tgtatgtttg aacctctgtt gtggaagaac tagtgtgctg 300  
 gaattgtgta tgacttgtga tgagaatgtt gtgtatgatg gcttttctgt gtatt 355

<210> 28416  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-021-Q1-K1-G10  
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 tacggaagat acaaaattct tccgtgagc atattgctct gcgttattca acggccaaag 180  
 gaaaatgact atttctataa ctgcgttta aatattaaca gccaaaggtt ggaaaaagca 240  
 gcatttgtga aaagcttcaa gcagccttgt tcttgacgta gttctccagc cactccatgg 300  
 taacactctt cggcctctca agtggcatgc caagggcacg gtcccagatg agctgagatc 360  
 ctatccccat gctttttgaa acaccgaaca agacagtg 398

<210> 28417  
 <211> 332  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ggaacaaggt cctgggttggc cttccccaaa aggtcattct tattaaccgc taatttcccg 300  
 gtcccaggat taaatggttc ttcaacaaca ac 332

<210> 28418  
 <211> 251  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-021-Q1-K1-G9  
  
 <400> 28418  
  
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 ctcaccgact tcgacctgtc ccgccttctc caccacagca tgctgtccgc ggagtcgtcg 180  
 tcgccccgcg ggacagcgtc gtcccgcggt caccacaacc gtcggtcgcg cgttctcgcg 240  
 cggagcgact c 251

<210> 28419  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-021-Q1-K1-H10  
  
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 atggtgttgg gtatagttgg atcgatggat tgaaggacca tgccagccaa catgtctccg 240  
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 ggtactacta cagaatgata ttcgagaaat tctttcccaa gcctgcagca aggtcaactg 360  
 ttcctggaag tctagtgtg gcctgcagca ctgccaaagc tgttgaatgg gatgca 416

<210> 28420  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-H11

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 aacagtctca tgtctactcc tgctgtatct gctgtcatcc gtgaaagaat cgggtgcagat 120  
 ggatcaaagg ctactggtgc cttcatcttg acagcgagcc ataaccagg tggctctacg 180  
 gaagactttg gtatcaaata caatatggga aatggtggac ctgcccctga attttttacc 240  
 gacaagattg tctctaatac aacgacaatc tctgaatacc tcatctctga aaacctttca 300  
 gatgttgaat tatcatgtgt cgggtgcacc agct 334

<210> 28421  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gccgtctaca caccaaaagt tgcgcccag gccaactcaa tctccgttga ggttgcggct 180  
 gatgaacagg tagctgagaa ggtggtggtg gaggagccgg ctgcggcggc cgacgttgag 240  
 catcagaagg ctaatgaggt gctcgctcca gaggcggacg tcgccgagcc cgaccacaag 300

gaggacgaag ccgtggagaa gaccgtcgtc gaggaggaaa agccagcggc agcagcccat 360  
gcagaggaaa aggtcgccac cgcgcggcgag accacgacga ctgtggaggc gaataaaacg 420

<210> 28422  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-A1

<400> 28422

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tgtttcatca gtggataaga agctggaggt taaaccacgt tttttagaaa tttttcaaga 180  
agacaactac cctacagagt tcccttacia gtccaaggct gttctcttgt tccagaaaat 240  
agaagggtgtg gaagtatgtc tatttggaat gtatgttcaa gaatttg 287

<210> 28423  
<211> 421  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-022-Q1-K1-A11

<400> 28423

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cttcgacaaa aatcgctggg ggcatgggtt tgggcatctn cttgcccaaa accatctccc 180  
gatcaatgga ggagattgtg gaggcacaa gaattcggga gtacaagaaa tttgattcca 240  
gtacagccag caagactcca tctcgtggtc cttttccgct acctccaccg cccaagtctg 300  
ctcctggcaa gctagtggac tctaaagccc tagaacatct tgatgcacca gttatggcgg 360  
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<210> 28424

<211> 353  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-A2  
  
 <400> 28424  
  
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 gaaggggtgt ggactgggtg tgctagcggg ggtgggtggtg gtgggtgggtg aggatcccct 180  
 ctcacgtcaa gcgctgtgtg gaaagcataa aggcggggagg aggaggagag ggcaaggcg 240  
 catagctttc ccgacgcaca aagcgaaaag gcttcataaa gaagaaagct tccgtcttgg 300  
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<210> 28425  
 <211> 372  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-A3  
  
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 <211> 363  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-A4  
  
 <400> 28426

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-022-Q1-K1-A6  
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 gatcctcatt cagcaggata tatacgcaaa tgaggagAAC atgggtctcc ttttacatct 300  
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<210> 28428  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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actacggcca gcagccccc gtcggcgccc cgccgcagca aggctacccg gggaaggacg 180  
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cgcaggggcta cccgcagcag ggctacccgc cgcagtagcg gcagccgtct ncacagcagc 300  
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<211> 288  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-A9

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gtagaactgt tacttaagtt gcttgggatg atcgctgctg tccttagatt atcttaagac 180  
tagtaatctg agcttagttt acgctcatgc tgaacatgta tcacggcttc agcttaatta 240  
ccatcggtgg aaagaccagt ggagcggcga acgcacaagc ggaccggc 288

<210> 28430  
<211> 301  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B1

<400> 28430  
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atcattgtta ggaacaaact ccaatagcag gctctacttg tacgtcgag acataagctg 240  
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g 301

<210> 28431  
<211> 399  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-F9

<400> 28431

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atgtccttcc gtgttctctac tgtggatgtc tcgggtgttg acctcacctg cagaatcgag 180  
aagggggcct cctatgagga tatcaagaaa gctattaagg ctgcttccga ggtccactc 240  
aagggtatca tgggttatgt ggaagaggat ctgggttcta ccgacttctt tgggtgacagc 300  
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<210> 28432  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-B10

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gtggtggcgg cagcggcttc ggcgcgggcc caacctcttc ttccatggag tgaagttgcc 180  
cttggtttgg acatggtggt tcccttcgca tgtggccttt agttttgaag gacagttatt 240  
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cgttatacat tggttccagt attattgtct t 331

<210> 28433  
<211> 291  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-A11

<400> 28433

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ccgcggccta tgcgcggggc atctttcgag tgcgtgcgta tctgttcaag ctctgatcgg 180  
ctcttcggcc cattcgtctg aagaaactga ccgtcggtt attgctcttg ctctttaacc 240  
taatccccggg gctgagaagg gaagagaaga aggcacgtcc acaccttaaa g 291

<210> 28434  
<211> 282  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-A12

<400> 28434

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gagaaaaattt taaaagatca aaagctcaca ccaaaataaa atacaaaaaa aatacctgtg 120  
ctatagtttc actgaatcga agttcattgc cccgagtttc ccaactcttt ctactggaaa 180  
aaccctgact caaccaaatt caatggcctt gcattacatt cctacatcct cggataccct 240  
agtagcgacc aggccttaac agttcgccct atatgacett tt 282

<210> 28435  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-B10

<400> 28435

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gcccggcgtg cgggccatca ccgacgcgc cggcggcccc ggatacctcc aggaggcgtg 180  
caacaagacg ctgttcccca aggtgtgcat gcacgcgctc aaggacaacc cagagtgcc 240  
ggcggagacg gcggtcacc cgcgccggct ggccgagctg ctcgtgtacg tgtcggccga 300  
ggtgggcatg accgtggccg cgttcgcgca ccacgagctc aacgccatca aggacgacga 360  
cgtcctgtac aagtgcacg acacctgctc cg 392

<210> 28436  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-B12

<400> 28436

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aggccgtcgc ctatgttcta cgtccacgag gcggacgtcg tccagatcca ccacttctc 180
gaggagtgtc ccctctgcgc caaatcgctc tccggcgaca tcttcatgta caggggtgac 240
acgccgttct gcagcgagga gtgcaggag cagcagatcg aggtggacag ggcgaagcac 300
cggcggaaga agcgcggcg gcgcacgcg ctgtccgcac gcagcagga gcaccggcac 360
cagcagcagc tgcagcagca ccaccaccag cagcagcaac cgcagccgct gaatgcccgc 420
atggacaccc gc 432
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<210> 28437  
 <211> 388  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-C10

<400> 28437

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atccatatat caacttacac agagaagttc agtacgaaag cgaaagagac aataaacatc 120
aaagtgaat caggagacat atgcatgtac atatacataa atataaaaga acaattttac 180
ggcgtctcga tgtgttttac catgcatata tccgcatgca tgcattgcag cggaccatcg 240
cctcttaatc tccctggtcg cccgcccctg gcagtgagtg actgctggtg cccacatgaa 300
tgaagtcttc ttgagataga gcagagcccc tttggttgat tattattcct cggaagcgga 360
aatgaaccgg acgacgggac gagagaac 388
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<210> 28438  
 <211> 342



<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-C11

<400> 28438

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 acctgtgcac caggactgca gggaagcacg ccaacaagta caaggtggtg gactcggaga 180  
 ctgtgctaga gatgcaagtc gactcgttca agaagcgctg gaaagcagcg cggatgctcg 240  
 tcaaggagga agtcaagact gccgcgactc ccgaagcgcg taaggcgctg aaccttttca 300  
 agacctaacta cctggactcc gccgacaacc tcggcgctg ca 342

<210> 28439  
 <211> 117  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-C9

<400> 28439

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 aaaagcgccc ctggcatgca tgtctaccca aagctatoca tactttattc ttgacaa 117

<210> 28440  
 <211> 390  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-D10

<400> 28440

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 tcatcgctccg gtgcgggtcaa tgtaattaac taagcttctc aatcatacat agcttggcaa 120  
 atgcctgagg gctagctaga caaggtccgt tgagctagcc cctttgggaa gaagggagag 180  
 gaatggcgct ggtggcccgt tgagcgagga agaggctatt gagaaccctg taacaagaat 240  
 tgccagcagc atctggacaa tcttgtaaac agagttccaa aggttcaatt ccaagcggat 300  
 acaatttccg agttggatcg agaagagtgc gtgcatacgt ccgtccacgt tcgtggttcg 360

tataagctag gtttcatcaa ccatgggcac

390

<210> 28441

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-D11

<400> 28441

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tccttttoga ggcctcaccg gctgctctgg ccgacttoga tgtgatagag atgctggccg 120

acaagcccac gtactccacg ttctgaagc tcctgcagga caccaaggac gcgggagagg 180

cgaatcagct ccggctggcg acgctactgg tcgttccga caaacttgcc aagcctctgg 240

cgctcgtgcc cgccgataag gtgcggccgg ccgtggagaa ccacgtcctt ctcatgtact 300

tcgaccccat caagctggac gagatgaaaa caccgacga catcctaccc aactgctct 360

tcgtcacga caagaaac 378

<210> 28442

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-D12

<400> 28442

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aatttgtttg accacggtga tctgtcatat atgtcgtcca ttgatttggtg ttaatttgac 120

<210> 28443

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-E10

<400> 28443

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cgcttctcca acgccgttc cagcaacaag ccggagccac tcctctcgga accggatctg 120

gagtcaggtc tgtatcttgt gtcaacgcca attgggaacc ttgaagatat caccttaagg 180  
gcactgcgtg tctaaaaatg tgctaattgtg atactatctg aagacacaag gcattcagga 240  
aagctacttc agcattacaa catcaagaca cctcttctta gcttccataa gttcaacgaa 300  
cgggagagag agcccactat cttaaggagg cttcatgaag gtgaagcagt tgcactgata 360  
agtgatgctg ggacgccagg tattagtac cctggcatgg aactggctag actatgtgca 420  
actgagaaaa 430

<210> 28444

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-E11

<400> 28444

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ggccgccatg gctgtttcct tctacctcgt cgtggcgccc cttctctctc tctccctcct 120  
cgtctccgcc gcggccagtg cgcggaccgt gggcgacacc gtgcatgacg cgtgcagcaa 180  
gaccagttc cccaagatct gcgtggacag cctcgccgcc aagccggaga gccagaatgc 240  
gacgccgcgc aagctggcag agctgttcgt gaacatcgcg gccgagaagg gatccgggat 300  
ggccaccttc gtgcaccgca agtacagcga caaggaagac agcgacatat tcaagtgcta 360  
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<210> 28445

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-E12

<400> 28445

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attaggtgca gccatgggtg cctgtgcaac gaagcctaag acgcttgagg ggaaagcccc 120  
agctgaggcc accatctcca cacccaagg tgcacctgag accactgcca tccacattga 180  
ggttgcgggc aaacaggcag tagttgagaa ggtggaggag gacaaggagg aggcactaac 240

agtggcggcg aaacaagagc cagcagccac catcgagcct caacagattg ctggtgaggt 300  
gaccacttcg gaagtggcgg tcgtcgttgt cgagcctgag aacaaagagg aggaggaagt 360  
tgtggagaag accgtcatcg agaaggagaa gccatcagca gtccatgaag 410

<210> 28446  
<211> 395  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-021-Q1-K1-E9  
<400> 28446

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cgggcagtgt gttaagtagg ggcgcagtga gagcgagcgg ccaatcggcc gggagcgaag 120  
ccacgcgtag ctgccgctc cctccccggt cctcgggtcc gccgcgcgcg cgccggccgt 180  
caccaccgca cgacgccgac caccacaatt agctagcagc ggcgtcgact aataaacgac 240  
aatggcgtgc atctccctcg aggacgtccg caacgagacc gtcgacctcg agaccgtacc 300  
ggtgcaggag gtgttccagc acctgaaatg caacaaggaa gggctctcca gcgccgaggg 360  
agacaatctg ctcaagatct tcgggcccaa caagc 395

<210> 28447  
<211> 351  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-021-Q1-K1-F10  
<400> 28447

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cattgccgat gactgccact ctggctgctc ctacggtcag gttgggtcgg gcggtcgcgg 120  
cctgggtcgt gcgctggtgg gcactgggtg cgaaggcatc ggccagattt ggggaaattc 180  
ctcaccgaag atcaacagtg ccgccgatcc gctgctcagc atgaccgtct ctaccactac 240  
ttcgaccgcc attgagcgcg aggacacgtg tcatccgaaa agcaagttgg tacctggaat 300  
ctcaagtgcc aggagaagaa caagtggtcg aagaggagcc ggctaact g 351

<210> 28448  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-021-Q1-K1-F11  
  
 <400> 28448  
  
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 cggctctcgga gggccacttc tggggcgtct tgtaccgtga cctcaagccc gagaacttgc 120  
 tcctncgctc cgacggccac gtcacgtca ccgacttcga cctgtcccgc ctacttcacc 180  
 ccagcaggtc gtacgcggag tcgtcgtcgc cccgcgggccc agcgtcgtcc cgctgccacc 240  
 acaaccgacg gtcgcgcgtc cccgcgcgga gcgactcggg tctcagccag cacgtcaagt 300  
 cgtactccaa cttcaacaac tccaggccca cttaccagcc ctgggtccgt 349

<210> 28449  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-021-Q1-K1-F12  
  
 <400> 28449  
  
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 ctggctggcc gcagcaccgg tgggtgtggtg gaggatggca ttgaaatacg tggccagggt 180  
 accgtctcca tgggtgggcgc cacaacgtcg tttggctggg tcatggggtt ccgtctgctc 240  
 ggtaaaatgc ggcgcattgg gaggacggga tggtgtgtgc gccgctgtta gcttcagacc 300  
 atgcatcgac attcacaagg ggaaagttaa gcagattggt ggggtctactc ttcgggattc 360  
 atccaatgat ggcattggaac tngtgacaaa ctttgaa 397

<210> 28450  
 <211> 338  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3067-021-Q1-K1-A10

<400> 28450

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ctttttatat gtggtggcgc tttcgtggat ttggagaaaa ctatatcgga gagacggcag 180  
gattcttcta ttggcttcgg cgcaccagtt cgtgcaaaca tgagggtcgg tggcacttca 240  
agtgctcaag tgacatcgtc cttgttgaa tcggttgaga gtggtgatct aatagctnat 300  
ggactttatc cagaatttat tggacgtttc cctatcct 338

<210> 28451

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H7

<400> 28451

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cgccgcccc agcagccgc tgctgccgc gctcgcgcc ccaggagccc ccgccgtcgc 120  
ggctcgcgcc tcgtatccgt aacagctaca ccgtgccgcc taccctcgct tcctgctggc 180  
tgcatcgtec tcaggtcttc cgaaggcgag ctccaatccc caaccactat tcacaagatg 240  
actacaaaac ttgagcaatc ttctgcggag catcgctccag caaaattcgc agcaccatcg 300  
tctttgaccc ccaagatctc aatgtttggg gcaaaagctg gattcatcat acctaagaac 360  
aagctggccg gctcactcgt aatcctgagc accagtgaca agaatgaaac accaactgca 420  
tccaacgaag atagcagcaa gcatgttcac ag 452

<210> 28452

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H8

<400> 28452

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gctgctgaga atcaggacgt aacccgacac tcgtccgcgc ccagcagcct gtgggggtga 120  
 agtgctctgt gcttgcaggg gcctgcaacc tctgcaacgg tggcatccgc ttcgtccggg 180  
 agcagcaccc caacaggtat tgtatagccg cgttgctcaa ttttcagtca aatcacatgc 240  
 cgctgcagat tgagtctagg agggagctcc tgctcccgac ggatgaagac agcattcacg 300  
 ccggaggtct gcgtcagcca ccccgagcgc tcgatggcgg cgccccgctc cgcgagctgc 360  
 ttgttccgct tcggcttccc cacgaactgc atccccctga actccaccac ggacctgaac 420  
 tcgttcgtct tgaggtgctt cgtcttgtac ctgggcgggtg tgt 463

<210> 28453  
 <211> 381  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H9

<400> 28453

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 cgctggtcgc gtgcgaggca tgccagcgtg aagctggagg aggacacact tctgggaagc 180  
 ctggccccag cccccgcgcc ggccgtcggc ggtgccgcgg ggctgcccggt cggcaagcca 240  
 ggggcgtgcg ccgacgacga tctggtcgat atgagcgact taatcgggat gtgatggcct 300  
 cgggatcgag ctgcgcattg cgggagatgg agaggcgaca agctgcgac tggcatccat 360  
 gagagagagg agagggggat a 381

<210> 28454  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A10

<400> 28454

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 gcatttgcatt tccatctgtc ttactgaggg taattaccgg ttgtgggttca gaatgttcag 180

ggaacgcaaa a 191

<210> 28455  
<211> 187  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A11

<400> 28455

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ttcattcact gtacgtcggg gccggctact ctgaaactta catactataa gaatctgggc 180  
ccttact 187

<210> 28456  
<211> 128  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A12

<400> 28456

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atctgtctac aactactaac aagcaatcat ctttctcatg catcaatatt cagcttaaaa 120  
catttaaa 128

<210> 28457  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-A9

<400> 28457

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ttcggtaagg gggctcttct cccctttccc accgaagttc ccccttcttt catcgatatc 120  
tttttttcct gtcaccggcc ggcacagggt tccgttttcc ttgctccggc cggctgtaaa 180  
agcttttcggg cctcttaggt gcctcaaatc cgggtgtgct cggctctttg gtctgaatc 240



cagtgggaag ggaaagggtc gcttcagtgt tgggtgactc cgagacatgc ctgtgctcta 300  
cgcttaccga gattaccggt gc 322

<210> 28458  
<211> 64  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-B10

<400> 28458

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ttcg 64

<210> 28459  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-B12

<400> 28459

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gcatgaactc accaaagggtg ggagctgatg tgtagtgtaa ggctgaacaa caaataatgg 120  
ttaaagctga gcattctctt ttaataagtt ggtcaaaaat tattatcact tactaaatgt 180  
aagtgtatgc caacccaaag taatagtaaa tcaaaattaa taataaacca taatgtgatg 240  
caaatagacaa attaagtttt acttcacaaa ttaattatgt gagtgttcga gctatctagg 300  
tggcgtctcc tattcaggtt gatggcgcca atgaataatt attagttctt ttattgggtat 360  
ccgttatattt ttttaaactc ttccgctatg taataatt 398

<210> 28460  
<211> 189  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-B9

<400> 28460

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gaagtggagc tgcaaagtcc gttggaatta tcttgtagca gtttctcggc aagatgagtc 120  
gcttcattca ctgtacgtcg gtgccggcta ctctgaaact tacatactat aagaatctgg 180  
tcccttact 189

<210> 28461  
<211> 271  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-C11

<400> 28461

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agccccctgtg cttaagaacc tgccatgtcc agctataata ctgtcttagt attctagcaa 180  
gtaccacagc acaacgttac ttattactgc tcaatcatta ttggcgatac ggaacatcaa 240  
gtaacttcgt aaactgatga gcatcctgac c 271

<210> 28462  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-C12

<400> 28462

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acagtaacat gcatcataac tctatatggg tgacacttga aattgttaca cactaagacg 120  
cactgaccgt accctgcgct caattgctcg atacttgaag cttgtaggtg aatgtatcca 180  
gtaagttgaa gaactggtta tctaattatt tatgtaccgg ggatccacca ttttggatac 240  
gcttcatcaa tataaaagag ctccaattat taaagttagg agaaaatgac gatctctaaa 300  
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<210> 28463  
<211> 123  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-D9

<400> 28463

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ctgagggctg accttgccga gtcccgcgag ccttcagctc catcttgatt cttgaggcga 120  
aac 123

<210> 28464

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-F10

<400> 28464

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catctaccgc ggccgcatcg tgcccgtaa ctaccaaagg gtgccgtgtg tgaagaaagg 180  
cgggtgtgagg ttcatcatca acgggcgcga ctacttcgag ctggtgtcga tctccaacgt 240  
gggcggctgc gggtcattc agtcggcgtc catcaagggg tcgcgcaccg ggtggatggc 300  
catgtcccgg aactggggcg tcaactggca gtccaacgag taccttaatg gccagagcct 360  
gtcgttccaa gtcaccagca acgactggca gacccaaaacc tttcccgacg 410

<210> 28465

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-F12

<400> 28465

gaatcgacgg acggaccac gcgtacgtgc caagatctgt caactggaac tttcatttca 60  
ggagatcatt ttcggctaca ggaaacagcc tcagtgaag ccacacgttt tccgaagcgt 120  
gtatgttcat tggcccccaa gaaaccgtaa cgggaaaaca ggagaagacc accttgacat 180  
catgactttc tacaacgaag tattcattcc tgccgtcaag tccttggttg tcgatgtagg 240  
acctgtcacc agtccaaaga acaaagaaga ggaaaaagat cctgctgata tatgtccatt 300

cccagaatct accctgctgg ctcggttgcc gaaccatccc gacatgtttt caaaaaagtt 360  
tctgcttccc ataacgagta cgtcttaccg atcggtcatt aaagatggac actt 414

<210> 28466  
<211> 152  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-020-Q1-K1-G10  
  
<400> 28466

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tcggctcagg aacaggccta tgctgccaca gtttcgaagc gtctatttca tggcccaaaa 120  
gccgtacgaa acaggaaaac cacttacata ta 152

<210> 28467  
<211> 325  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-020-Q1-K1-G12  
  
<400> 28467

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cccggcgcgg ctgtcgggat gccggtcagg gtggtcgata ccgccacgcc tttctcgcag 120  
cccttcccag ggcaagaagc aaatactgga caccatctc ctctagatg ttcactctta 180  
agtgtggaa gatcttttgc tggaaactcag aatgtttcaa gtctgcagaa ggatgaagca 240  
tggaaagtga atgtccgcat ccatggttgc gatcttgaac aggggtatct atgtggaacg 300  
atgtgaagcg ctaatggtcc attag 325

<210> 28468  
<211> 338  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-020-Q1-K1-H11  
  
<400> 28468

accacgcgta cgtccacgcg tgctttaata gcatataacg aacacagtaa ccatggactt 60

gcatggccaa catgtccaac atgctatgaa ccttctcaaa attcacatga tgatttgtat 120  
 ttgcattcca tctggcttac tgaaggttat taccggttgt ggttcagaag gtacagggaa 180  
 gggaaaaata aagcgctcgg ttatagagct tgcgagagaat gaacatattg agtggcgcgga 240  
 agaagaactc tggaactgta gcccttcgac ttggtggccc aagagagtat cggttccttg 300  
 accatgaaag cgtatctaac ctaatgggga actttaac 338

<210> 28469  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-019-Q1-K1-H5

<400> 28469

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 cgacaccaca ccaccctatg ctctctgtcc tcgcccgcag ggtaagattg cagcagcagt 120  
 gaatttggga gcttgaagct ttcattccgag acatggaaaa agtgatctgc cgggcatatc 180  
 tccttcaatg caagcgattc ttttcgaaaag aaactcttga ttggtgtgtc ttagcccggtg 240  
 ggaacaccca tctctcctct ctggtgaact acacatagtg gttatatgct cctctatgct 300  
 ccacaacaag caggctgatg cgatattttc ctgaagttat tatattccag tctatgccag 360  
 acatctacat gtaactncac caccttggtc ttcctttggt tt 402

<210> 28470  
 <211> 254  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-H12

<400> 28470

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 cttctgtcat tccccggacg agatctcact cgacgagtag cttactctca attgtcgcta 120  
 tctaccccag ggcaatgctc caggaaggac ggcgcggtgt atcaacacag acggggcgcg 180  
 cagaagccga tcaagtgctt acatgcaccc atgcgogtca gaccagcgca ggtttcggcc 240  
 tcgtgcagac tacc 254

<210> 28471  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F9

<400> 28471

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ccctgtttga acaggggtgca accacgtctc attattttcg ttcttatggg gtccgtatgg 60
aatgcctagg tggttagctg tgcacaaata acagttaaac tttgacggct cctatttcaa 120
ctgctggaga aatgccagtg ccctatTTTT gaccaccagg gtgtggaatg gaaatcggta 180
atgcgtccat tttgaagggc ctgagatggt taaaagacag aacactaatg aagatcaaca 240
atatctcaaa ctaaagactt atatccaatt aactactcta gctccatggg cctagtgagc 300
gtaggtaaaa aagtgcattt actgcataaa ggaca 335
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<210> 28472  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-019-Q1-K1-G1

<400> 28472

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cccactcgtt cgcccactcg ttcggccgat cacagtggag gatcacaggc aacaacgacg 60
acccgcttgg tgtgcgttgc tctggaaggt aacagaagtt tgggagtggc ccatcgcaact 120
cgttctgaag ctcaacaata catcaaccct tccttccgag tggagcaaag tttacatcag 180
cgcaaacatc agcctgtgcc ctctcctaata cctgtactcc ttcagctcgt tcatccctct 240
agacacccga atagtgttcc tcctcccgca agtccgcttc cctctatggg ccgtcgtgct 300
cttcgccagc ctgtgcctag ccctcttcca ctacctnctc gagaaagaag ccccgaaac 360
agagaccatc gogagcacca ccctctnctt catcatgagc gtcttctgga tctcgaccac 420
ngcnggagag ctntgagct g 441
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<210> 28473  
 <211> 310  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G11

<400> 28473

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ccttggggcc cgatttcacg gaactcggag tacactccgg cgatgagatt gcctcaatat 120

gatgaacctg aggcctgat agaaacagtt gacaatggga attatccgta cgcttctaata 180

cttctaccgt ggcgataatt cgactgctag gcacgctgct tcgacaagaa tgggctagac 240

taggtcaaaa tatatcgtgg tgacgtacca tacctacatc ttcatagtgc tcaagctgtt 300

gatcatatac 310

<210> 28474

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G12

<400> 28474

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catggctgtc ggaaagaaca agaggatctc caagggaaag aagggtggca agaaaaagac 120

cgtcgaccct ttctctaaga aggattggta tgacatcaag gcaccgtcgg tgttcagtgt 180

gcgcaacatc gggaagactc tcgtatccag gacacagggt accaggattg cttctgaggg 240

tctgaagcac agagtctttg aggtttgcct agctgatctt cagggcgacg aggatcaagc 300

ttacaggaaa atcaggctcc gtgctgaaga tgtgcagggc aggaatgtgc tcacaaactt 360

tcggggtatg aattttacca ctgataaact gagatcccta gtgaagaagt ggcagacatt 420

aatcgaagcc catgttgatg tc 442

<210> 28475

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-019-Q1-K1-G2

<400> 28475

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ccacagcagc cgcggcgagg tcgtccgtcg gattcggagg ctcaattatt actgaaaaga 120  
taatacagta cctatggctt ctctggacgc cgtgcgagga gacctcgccc tgctgattct 180  
gtacctgaac aaggccgagg cgcgggacaa gatctgccga gcgatccagt acgggtccaa 240  
gttcatcagc aacggcgagc cagggcctgc gcagaacgtc gacaagtcca ccagcctggc 300  
ccggaaaagtg ttccggctct gtaagttcgt caacgacctt catgctttga tcagccctnc 360  
tgccaagggg actccgctcc cgctgaccc actcgggaag tccaagaacg cgatgc 416

<210> 28476

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G3

<400> 28476

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gtgattcctg gaagcagtag atgaggaggg cgacttgtag aatcaactat gggagcgagc 120  
tacctctagc ccagggaatc aattttggtt aatcctgcag aaatggtgag cgtggatctc 180  
agtgttttct gcagacgtgg atgccgtatg gaaagaactg atgcaaccgc atttgagatc 240  
tcagcagact tgagcagcat ttattggcgt cagttgtgaa acttaaaactg caggagcatc 300  
ttgtacataa ataaaataag atgtttgttg ctctggtggc gtggcacggt ttggtaccgg 360  
tgtccagtct actaataaaa tctaattgc 388

<210> 28477

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G4

<400> 28477

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gacatcgagg ggaacaagtt cagcggcaag atctcgcaag acttcaacaa gctgatccgc 120  
ctcggaacgc tgtacctga cggaacagc ttcaccggcg agatcccaaa gctgcagctg 180



cctgcattgg agcagttcaa cgtgtcgtac aaccagctca acgggtccat ccccaacacg 240  
ctccggaaga tgccgaaaga ctcatcttta ggcaacacgg gcctctgcgg cgggtccactc 300  
ggcctgtgcc ccggcgagtc cgcgcccacg ccggccggat cgccggagtc gcagccagga 360  
gcgggcggtg cagtcgacgt cggtagcggc aagaagaa 398

<210> 28478  
<211> 466  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G5

<400> 28478

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tgtaggtctt cattatcttc tcaacatgg tgtaggtact gcttcagatc cttgcttttag 120  
gttacatgaa agatccttct ctaaatacct tgacatcagg accatatggc ctcatctttg 180  
catcttatgt gccattcttc tttgacattc caatctcaat gaagtttcgc atatttggac 240  
tgagcttcag tgataagtca tttgtatatt tggcaggact ccagcttctt ttctcatctg 300  
gaagacgttc cattgtacct ggactttctg gcatattggc tgggcttctg tatcgccctga 360  
atacatttgg cgtccgtagg ttgaagttcc cagagttcgc aacatcgctc ttctcgcagt 420  
tgtcattgcc cttttcaagc aatccatata aagggttacc gatcac 466

<210> 28479  
<211> 287  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G7

<400> 28479

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
agggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gcggacattt 180  
tagagccatg tgattgggaa aactgttggg gtgacaaaaa ttttttttat tgggtggcct 240  
tttttttatg gcatggtggg gtttttaaaa aagtgggccg ggggaaa 287

<210> 28480  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-019-Q1-K1-G8

<400> 28480

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tccgcgctgc tgggtgctgc catgctcgcg ctctcctcgt ccccgctcgc tctcgcgtagg 120
gagaaggcgg aaccggagtg ccaactcgtgc gagtcgggct cgccaccctc gaccggcggc 180
gtccccctgc ctcccgtcag cataccgtca gtcccgtcgc cccctgtcag cataccgtcg 240
gtccccctgc cccctgtcag cataccgtca gtgcccctgc cgccggtgac cctccctccc 300
attccgatcg ttgggggaag cccgagcccg acgaagaagg gacaccggaa ggcgtgcccc 360
ccgtctncgt ctnccccgcg gccacgccc acgccacgc cgtccttga caagtgcccc 420
attga 425
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<210> 28481  
 <211> 359  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H11

<400> 28481

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tgatggccaa gacgagctcg ttcaagctgg agcaccctt tgagaagagg cagtctgagg 180
ctaateggat cagagagaag taccctgaca gaattccagt gattgttgag aaagctgaga 240
ggagtgacat tcctgacatc gactagaaga agtacctggc cctgctgat cttacggatg 300
gacaattcgt gtatgttgct aggaagagaa tcaagctcag tgctgagaaa gctatcttc 359
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<210> 28482  
 <211> 88  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H12

<400> 28482

cgatcggagt cgggaggatg atgccttttt cgacgggggc accaccgaaa ccgactcgga 60

cgagtcctct tcgcgtgggg tgggggcc 88

<210> 28483

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H2

<400> 28483

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agcagcaggt gcaaatgcag aaactcgtat accaagtcgg aggtgccttg ccgacaaaag 120

ttgtctgcct gacacaggta gtgacagcag atgaactgag agacgatgag gaatacaatg 180

acattgtgga ggacatgagg gaagaaggac gcaaatatgg taacttggtg aaagttgtaa 240

ttccacgacc tgaccccgag gatgccccag ttgctggtgt tggaaagggtg tttttggaat 300

atgcagatgt cgaaggctcg accaaagcaa agacggtgat gcatgggcgg aaatttggcg 360

ggaaccaggt ggtggccgtg ttctatcccg aggac 395

<210> 28484

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-019-Q1-K1-F8

<400> 28484

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ttccagcttc tcccatccaa gattcagggt ggagtcttct ctgctaccat gccccctgag 120

gcccttgaga ttaccgcgaa gttcatgaac aagccagtga gaatcctcgt gaagagagat 180

gagctgacct ttgaggggtat caagcagttc tatgtgaatg tggataagga agactggaag 240

ctggacacac tgtgtgacct gtacgagacc cttgccatca cccagagtgt catctntgtc 300

aacacccggc gcaaggtgga ctggctcact gacaagatga ggagcaagga ccacacttgt 360  
tcttgcactc atggtgacat tgaccataac actagagaca tcatcatg 408

<210> 28485  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H3

<400> 28485

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cgcgtgactt cgcctcatcc tctccggaga tggacttcca ggtcgtcgtg ctgccggag 120  
gcacctgcca gaaactctcg cccctcgttt ccaaggacgt tcccaaggcg ttgctcccg 180  
tcgccaatcg ccccgtactc tcttacgcgc tggacctcct tgaggccagc gacctcaagg 240  
acctcatcgt ggtgggttag gggcacgagg cagcgcagct tgtcgacgct tgggtatcca 300  
gtgcgtaact ggatcggcct cgagtggagg tagttgtggt ttctgaagac cttggaagt 360  
ctggtgcatt acgagctatt tcaaagcgac tgatggcaaa cgatattttg gtagttagcg 420  
gtga 424

<210> 28486  
<211> 373  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D9

<400> 28486

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gcaatctttt ttcggttcag ttgttatgat ctttacatat agttagctac attgatagcg 180  
gaatgtgggg tcattttttc tgtctggccc attttgtgta catccttttt gacaacaaac 240  
aggtaaaagt gacaacgttt gcaaatcgac aaacaatggt gagttattca atctaaaaaa 300  
taaaaaagaa gcagaaaaat caccacaacat gtttacagat agcaaggag caccaaagaa 360  
aatatgtaac acc 373

<210> 28487  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-019-Q1-K1-E10

<400> 28487

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 gaacactgaa attggcgatt ggtaccgacg catggaagac gcagttggag aaccatcaag 120  
 aatacaggat gcacaagcaa actagaatct tgacaacatt ctttttaaata tntctatgag 180  
 gtatctcgtg ccctatgcat ggaggctatt caaatTTTTT gccagaatca agtgtatgca 240  
 ataatgctct gccagattat taagcataat aggctaatag cacctgagga acagtgtttt 300  
 ttgacttggg aacttggttg tgttactgcg taaggTTTTT ctcccctaaa aaaaaaatgt 360  
 attcattttg atgat 375

<210> 28488  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E11

<400> 28488

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 cgaatcctgg ctttatgtcc agtgacgaaa gcatgatccg gtatttcggc ccgttcaagc 180  
 caccgagcta caaccagtag atatgaaaaa tcctctagga gctagagcta tacaagatgg 240  
 acctgcactc gtacgacgac aatcagatc ggtacagcat cagctccggt gcgtcgtggg 300  
 agcacgaaac gccgtcgtcc aacgcatggc taatgatgac gatttgcct 349

<210> 28489  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E12

<400> 28489

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aaacctttgc ccgtccaggc ttgtgccaga ttgcaacagt ggcagccatt gacagtgcct 180  
caggctcctc tgaagtttga caacccttca gatgatgtca gcacagggat gatgatgagg 240  
ggatatgaccg tcaaaaactt cgatccagtt cgctactctg gtacatggtc tgaggtagcc 300  
tcgttgaaac gtgcatttgc tggtcaggga ctagaagact gtcactgtac tcagggagtg 360  
tattcttttg atgagaaggc acgctcaatc cagggtggata cattctgtgt acacggtgga 420  
cctgatggat acatc 435

<210> 28490

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E5

<400> 28490

taaaaaacat aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaatggg 60  
aagggaaaaa aaaaaaaaaa aattaatata aacggcctgc ctccctcata gttccaacca 120  
ttccgggact cctgcatgct acttccaacc ttccctttgg cttcacccaa ttcaatttcc 180  
ctgcccttct ttccctaata tctaaactgc tttaaccctt ttcttcccca atcttatttg 240  
cttaaccctt catttc 256

<210> 28491

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E6

<400> 28491

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gtacatcctt atcacggtgc tgttcgcgct ccctcgttc ctgatactgt atttcgcgta 120

tccgagcctg gactggcttg ttagggaaat ctttgccctga gatttccttg ttcggtaaaa 180  
 tctcaatgct gttgttgagt ccttgataaa ctgaaccttc cctagatctt gttgcaagcg 240  
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<210> 28492

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E7

<400> 28492

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 gtgaagttgg ttcttccact atgctcata aaatcaaccc cattgatttt gaaaatagt 180  
 atggcaattt atgtcaggcg aattctatat tgtctggtat aagcatgaaa ctaccaatat 240  
 cccggttgca gcgtgacctc acagactcga ctgttttgag aaacctgggt atgggattag 300  
 gtcattctct attggcttac aaagctacca tgcgtggaat cagcaagggt caagtgaatg 360  
 aatcacgttt agctgaagac ctggagcaaa cttg 394

<210> 28493

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E9

<400> 28493

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 tgggaagaaa ttgctggaac agcttttcag cacttcgaac aagagggcaa ccgagttata 180  
 tcagttgagg agttagcaca ggaactaaat ctgcgcccga cacattactc cattgtgcaa 240  
 gactggatca gaaaatcgga cggcaagctt aactttcttg gggtcaccaa atttttgcac 300  
 ggtgtcacga tacgggggtc aaatacaaga cgacactaaa cagatgcaaa ctgtattcgc 360  
 ttctaatttg aaacctctc atcgatta 388

<210> 28494  
 <211> 415  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F1

<400> 28494

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 ttcattgggaa aacacataga aagcaaactat agaagctgaa ctgaagaaga ttgaggaaca 180  
 actggaaaag aagaaggctg aatatgcaga gaagatgaag aacaagggtg caatgatata 240  
 caaggaagcc gaagagaagc gagcgatggt ggaggcaaaa cgcggtgagg aggtcctgaa 300  
 ggccgaggag atggctgcca agtaccgggc caccggccac gctcctaaga agctcatcgg 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F12

<400> 28495

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 gcacgttttag ttccgctggt atgcccgctg actcgacttg gccacaaaca accactgtct 180  
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 ataccatag gtcccttatgg cagcagggtg cgtcacctta atcagcccca tgacgcaa 300  
 gcccatgccc aatttggcat tatcacaatg gtgctggacg gccgcaatat tagcgtcatg 360  
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<210> 28496  
 <211> 373  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3067-019-Q1-K1-F3

<400> 28496

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ggcaagctgg tggtcacga cttcatggcc ccctgggtgca gtgggtgcca gatgatggcc 180  
ccggtgtacg cggactgcgc cagcaagtac ccttcgcggg tcttctcga agtcgacgtc 240  
gacgaactgc tggaagtcgc gaagatctac ggcgcccatg tgatgccgac cttctgcttc 300  
atcaggaacg gcgagacgct cgagagcttt gctaccgtcg acgaggacga gctccgggac 360  
gccgtcagga agt 373

<210> 28497

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F4

<400> 28497

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ttccctactc gatctcttct cctacttcc caatgcaagc aaacagtcgt gtgtctgcag 180  
ctttactttc ttggtcattc ttttcttget gctactttta cagatgtata ggaccgtcaa 240  
gagcactgat aagccgtctg cagcaacctc atcaggaggg ggagggccaa ctgttgacgg 300  
tggtggcggg tccggcgact actaccacc gagcgattgg ccgctggctc cattctcatc 360  
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<210> 28498

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F6

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 gcatcggcag ttgagagtgc atcagctcca gaaatgactc ctcggagaat ttttctgaa 240  
 agacatgtca tgtcttttgc cgtgcctgga aatcttctg aaggagtgtg ctgtttgtca 300  
 ctctagtgga atgatcttca gttattttct agccgcaatg atgatcccg gtcgcgcct 360  
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 aaggggtaac ttgagaactg ggagcataca gttccacgat gag 463

<210> 28499  
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 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D8

<400> 28499

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 gaatgtcgct actttcctag ttcatactgg gatcgcgaat aaagagaaca tcaagattca 180  
 cggctctcta agggacctgt aaatgcatgt gccctatatt gtgtgccttc acatattgtg 240  
 tagcttgaag catcgacacg ttactagtca ttgcttactt atataagaac ataagtcgta 300  
 tttgctattg tcaagtgtgc cttgcttgat gcaagttgag ttttcgtatc attattatta 360  
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 tctgttggc cta 433

<210> 28500  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-F7

<400> 28500

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ccgactgtat gaggetgtcc gcgggtgggg agctggccgc gtcggtgatt ggggagctgg 180  
ccacgccggc tggggtggat ggaggcgcgc cagtgactgc ccagcaggga tcgccgtgcg 240  
gctcgccgc tcgggatcat cagcgtttgg ggagggaggc agctggcatg tggaggaggc 300  
tgcgcgatgg aagattcggt gcctcggtgg tgatcgcgaa taggttcgct caaccgaggc 360  
ctcatattta cgctccttac gttggagtcc tatgttgatt tggatcaaac ttataaaata 420  
acagcttttt ttgaatgatc cataagcaag tg 452

<210> 28501

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C3

<400> 28501

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catcgctcgc cacattgctg ccatccgctc tgccgctgct ccatcgctgt ccttccccga 180  
agcagtcgtg agcgagacgt gaggcgacgg tgccctgcac cactgccacc gtctcggatt 240  
tgtcgtcctt caccggcatc tgtgcctcag tttgctgtcc tgcactaccg tcttccgcgg 300  
cactatagtg gaggcaacac atgaaaccaa catggagaag aaaaatgaaa tggcattcca 360  
cataaagctt gtgaaaaaga gttaaactcg taatttatcc t 401

<210> 28502

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C4

<400> 28502

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gatgttgctt tggagcgtga aacggaagga gacctcctac ttgcatatat ggggcagggc 180  
ttgggcttgc ggccaggaat tattgatggg gcaattagta tttcatcaat tcagtgggta 240

tgcaatgctg acaagtcttc tcatgaacca agattgctgt taaaggctat cttcggtca 300  
 ttatatatat gcctagcacg gggagcaaga gctgttctac agttttatgc tgataatgtg 360  
 acgcagagtg aaatgattgt ga 382

<210> 28503  
 <211> 348  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C6

<400> 28503

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 acgactatgc atgatgtgaa caacatcgag gaagagatgc gcaggaagca agctcacgct 180  
 gcccaggagg cgtacgagga ggacgacgag atgccgggag gagcccagag agtgcagtgc 240  
 gcgcaacagt aagcagacta tcatcaaggc aattgggagg ggtgggtgcc ttaaagcatg 300  
 ggagtgatct ctggttttgc tgtcgccgag ctgggaaata ggaagctg 348

<210> 28504  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 28504

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 aaatcttctc aggcaagggtg cagcatttgc aacggagatg ttgatgaggc ctctttattt 180  
 cctaacctcg ctctaagagc ggtagctacc gtggtgaaga tggaagacga taggaggctc 240  
 tttcacaatg cggcccttcg aaagcgcagt aaagaagtga ctgagcatat ggatgcccaa 300  
 aggcgaaatg gaagtagcaa ggacagtatt gagctggggc tagaagctga aagccctaga 360  
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<210> 28505  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C9

<400> 28505

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gttaacatgt aatagcagag tgagtcgata tcgatcagta gtagatttgt cgagtcaagg 180  
aaggggcctg ctgctgctgc tacgcgacag cagcggccag atgtactgcc tgctgcatg 240  
catgcatgca gtccctcccc ttgactcgac ccgtagagat gggatgggaa tggaagtagc 300  
cgggtccttg ggcgagtagc ggcgcttgg caccacggg ccagccgtac tggcctgtgt 360  
gatgaaccgg cgagagagag atgagataat gtgcgagcga gagagggttg ggttgggttg 420  
tggtagtga aga 433

<210> 28506  
<211> 344  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D1

<400> 28506

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gcttgggcct gacctctctt atcgtgcttc cagctgataa gattccagca gaagcttttg 180  
atcggatctt caaagcatca cttgagcttc ttgttgctta caaggaccaa gttgcagaag 240  
ctaagaaaga aaatgaagag gctgctgatg atatggatgg ttttgatgct gatgaagaag 300  
atgatgatga aattgactcc gataaggaga tgggtgttga tgat 344

<210> 28507  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D10

<400> 28507

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aagaagggat gcgattgctt gggctacata aaatattttg atgcacattt cacaaaacttc 180  
actggtgggtg tggagacaat tgagaactgt gtttgtttgc atgaggagga tcatgggatc 240  
ctttggaaac atcaagactg gagaactggg ttagcagaag taaggcggtc aaggaagctc 300  
actgtttcat ttatctgtac agttgcaaac tatgagtatg gtttttactg gcacttctat 360  
caagatggga aaatagaggc agaagtaaag cttactggaa ttctcagctt aagggttttg 420  
atgcctgggg aatccaggaa atat 444

<210> 28508

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D11

<400> 28508

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tgctaggccg gccacatcag gcatggacga ctgagacctg gacttctgca acccggtcac 180  
gtacctgtgc cctggactcg tcaactgacc tgccagcagc tgctacatgg acagatactt 240  
caacgagatc ctcaaagaca ctgagcagca cgcactgcta gcacacgcac agctggcatc 300  
ctgcgttgca cgagctatcg cacacactca cctgcgtcca cgtggacacc aagat 355

<210> 28509

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D12

<400> 28509

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attcaaattgg gaaatagtga gttccagtcg tgacaggcca aaattggatc ccgtggcatt 180  
 cggccatagt atgataacct ttaactcacg attattacgg gtcctgagga ggatacaaaa 240  
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 <211> 407  
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 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D2

<400> 28510

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 aacctctca gcttgcctca atcgacttct ttgtcagtac ggttgatccc acaaaggaac 180  
 ctcccttggc cacagcgaac actgtccttt ccatcctttc cgtggattat ccggttgaga 240  
 aggtctcctg ctatgtttct gatgatggcg ctgcaatgct tacgtttgaa gcattgtctg 300  
 aaacatctga atttgcaaag aaatgggttc ctttcagcaa aaagtttaac atcgagcctc 360  
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<210> 28511  
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 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D3

<400> 28511

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 tcggcatgat tttgtacttt caaagaaaga gtttgccgat tcttattggg aaacactaga 180  
 gtgttgttat ttaacagctg gtttggtctga cccgtttagt gccttacctg gcagttctgt 240  
 ccctgtagtt cgtctcatct gctgtacatg attgatgcat atgattatcg catacgttga 300  
 ataaatgtac ttagcgctg aatgggttgc cccaactta cataaggtag cttctgggca 360

tgggcagtac ggtgagaaac aaccaccttg atgcctaaat gaaggtccca tatttgtgtt 420  
taccat 426

<210> 28512  
<211> 402  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-019-Q1-K1-D4  
  
<400> 28512

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ataagccgtc caccacggcg ccgagctatg tcagcgagta cgtcggccta cgaggcggct 180  
gcagcggcag cgccctatac tgcaccaact cgtcgagcgc gttcgacgcc gagctcttca 240  
tgaagtttgg cgaggtgatc tcgcggagca cggaatagtc caatagatcg acgatcattg 300  
tgtgttacag tttaacaatag gtgtctggcc ggcgcctgt gatgtgactc gctgcaaata 360  
tgctgctgcc ttatcgttgg gactccacta ggcactagta gc 402

<210> 28513  
<211> 413  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-019-Q1-K1-D5  
  
<400> 28513

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attagtgtct ttggggctaa gcttcaaaag aaactggagc agtcaaaaat cttcatggtt 180  
ggttctgggg ctcttggatg tgaattcttg aagaaccttg cgttaatggg tatttcttgc 240  
agtcaaaatg ggaagctgac tgtgacagat gatgatgtta tagagaaaag caatctcagt 300  
cgccagtttc tctttcgtga ctggaacatc ggacagccca agtccacagt tgctgcaact 360  
gctgctatgg caattaatcc taaagctcat gtggagggcc ctcagaatag agc 413



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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-D6

<400> 28514

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ccatggcggc ggcagcaggc ggaggagcgg tgcgtgctct gtcccagaag gagcaggaca 180
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tcgtccagtc tgcccgtcca tatggccagc gtgctgtcct caagttcgct cagtacactg 420
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<210> 28515  
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 <212> DNA  
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<223> Clone ID: LIB3067-019-Q1-K1-D7

<400> 28515

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catggagggtg cacaaaaacc ggtggatcga agagtggaac gccggccgcg agaacctcga 180
gttcaatttc cgctggaccc gccgcagcct cgccgtcgtc ggctctctcg gcctcgctgt 240
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ccggccatac aggaagttcc tgtaagcggc gtccagggcc gcatgagacg tcgatccctc 360
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atctgattga gcattttgga atgcttaac 449
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 <211> 392

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C2

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 tgtcaaattg aaagagagtg gttgctaaag gataggaagc tgaagctgga tgaaggaagc 180  
 aactacatgc aaccgatggc aataatgcat tgcaagggtt aggctcgtta gaaatgtcaa 240  
 gttgggtccc gacgtgggta tgggtcccgc aaggccgaca gagctgagat caagcactga 300  
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<210> 28517  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B1

<400> 28517

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 ctgggttggt gttttagca tgctctttct ttcaccagtt tctcaactct ttgaatgaac 240  
 aaaactgtgc attatttggt cttttttttt actattattt ctgtagtctg gcgaagaggc 300  
 cataatactg gcaccttcc ctttccactg gacttatctg gaacgagaag agcacgtttc 360  
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<210> 28518  
 <211> 420  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B10

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tatggagacc agacactctg attattccgc tgctacttat gaataatgct gatcattcag 180

tccaagcaag acaagegcgc actctcgtgt caaagctcat caggctaacc ccctaaatgc 240

acaggcaagg aggcgggccc gaggcgcgc atgcaaatgc tgcaccact ctcgcaattt 300

atgtagcttt tcttccatgc tcgcatgcac tatctcatc cgacactaca cctgcatcca 360

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<210> 28519

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B11

<400> 28519

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ccgtcccag gacgcgcacc ctgaggagt ccacattcgc accctcacc ccgtactcgg 180

ctgcgaacag aaggccaggg acgcagtgc ctaccactac aagaacgcc ccagcggctt 240

ctccgcgaag ctacaccccc agcaggtcaa ggatctcaag gagcaaccag gtgttctcca 300

ggttgtgccg agccagactt accagctaca tggctcctggg tctggcactc accagggcac 360

gacacacacc ttgggcctta tgtgaaggcg tatgagaatc aagaagattg tgtttaatat 420

ggct 424

<210> 28520

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B12

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<210> 28521  
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<212> DNA  
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<223> Clone ID: LIB3067-019-Q1-K1-B3  
  
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tgatgtttgg tcacctgagt tattgcccct gcgaccattc aatggtgccc cttagatgat 180  
ggcctcggtt aggtgtttgt agcatgctct ttctttcacc agtttctcaa ctctttgtat 240  
gaaccaaact gtgcattaag tgttctctac ttttactatt atttctgtaa tctggctaaa 300  
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<213> Zea mays  
  
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ttccttcacg atcgactgca ccaagccagt ggaggacaag atcatggagg tcgcctcgct 180  
cgagaagttc ctgcaagagc gcatcaaggt cgccggcggc aaggctggca acctcggcga 240  
ctccgtcacc atctctcgcg agaagaccaa ggtcaccgtc acctctgacg gacccttctc 300  
caagaggtac ctgaagtact tgaccaagaa gtacttgaag aagcacaacg tgcgggattg 360  
gctacgcgtg gttgctgcca acaaggaccg aaacgtc 397

<210> 28523  
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<212> DNA  
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<223> Clone ID: LIB3067-019-Q1-K1-B5

<400> 28523

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gaagatctca ttggccgggt gtgctcagct agagaatgta ctcttgacag gatcattcaa 180  
tgagctcgtg agccttgata tctcaggatc agctgtgaag aggctggatc tcagtgaat 240  
gatagtgtg aaacttgatg agatcattct actagactgc aacatgctgc gtgcaatcct 300  
atggcctccg gaaggaagaa agaaaagata tcctagcaag ctgcgcattc aaacaaaaaa 360  
ggagagtagc acaccagtt atatgtggtg gtatatattca gtatacgatg aaaggctgct 420  
ctggtcactt 430

<210> 28524  
<211> 265  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B7

<400> 28524

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aaatctgact tgattggtct tcgctctcag gggagaatat actctgcctg ttgactgaac 180  
tggcagtgcg catcctgctc tatcgtcttc gttgaagtgg acagcgtatg tgtgatggtt 240  
cgtgaagatc actggtgtga tcatt 265

<210> 28525  
<211> 442  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B8

<400> 28525

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atggcccaga gacagcgaag gatgagatcg ctttatgggt tgaaccaag gagctggtct 180
cttacaccag caatgcggag aagtggatct atggggtgaa ttaacgagag agtcaatctg 240
ttttttttcc ttcttttgat ctcggttttc acataattgc cgacagacct aggcacaagg 300
atgtaataaa gtcgctaccg tcacttctga gttggattgt gaccttcagg tgtagtaagg 360
cacaaggaag gatggaaagg aaaggaatat accgtgaaat atagagcgtg cactgagtag 420
tcgcgatgtt caaatcaaac ta 442

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<210>      28526
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<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3067-019-Q1-K1-B9

<400>      28526

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attccaccat ggccgcgcgc cacagcggca cagccgatgg atccttccat gttcctccgt 180
ccgtccgcct tgctacaagc aggcagccac accaataagc tagctcttgt tgttgttttg 240
tatgtttgat tgggtgtccc ttcccagtcg agatggaata aaataaatca tcaggcgcca 300
ataagcaaaa aaaaaaaaaa cgaatggcac aatcaaagaa acaatcgaat aaaataaatc 360
atcaagccag acaaaa 376

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<210>      28527
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<212>      DNA
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<223>      Clone ID: LIB3067-019-Q1-K1-C10

<400>      28527

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agggttgatg gcgcctaaag tcgacatgat acccatggca tagaatccgc tagatgagga 120

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gccgcggcc tagaatgcac acgtcgtgaa taagacaacg cggagaatcg gatcccaaatt 180  
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 agcgtgtaga cctaaaagat ctacattttc aggggtgctga accaggctct gccggacatt 300  
 gttatgtcct ccaaggccat gtggatcatg aactcttaca ttaacgattt ctacgagaag 360  
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<210> 28528

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C11

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 ttgttgtaac ccttctgtca gttttttcat tctattgttc ggttgctccc cttcaactgc 180  
 tccagttttc agttcttcta gccggggcgg gtagctcatg caaaagtagg agtccagctt 240  
 tctggaagtt tcttgtaacta ggtccgcgat gcataacaga gatttctgaa tcttgacaga 300  
 accttattac tttcccttga gggatcaaatt ttcggcgact gaataattgt ttggtttcca 360  
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<210> 28529

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C12

<400> 28529

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 ctgaagaagc cagcagagga agagctcctg tactagaag gcaccctact ggaagaagcc 180  
 taaagctgat aagctgggtcc tctctggcaa'gtccagctgt caaggagtac gtcaagggtca 240  
 agaggggcaa gaagaagggc aaaaacagcg tgtagacctt caagatctac atcttcaagg 300

tgctgaatca cgtgcaccca gacattggca tctactccaa ggtcatatct atcatgaact 360  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-019-Q1-K1-A9  
 <400> 28530

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 tggaattaaa catttataac gtcgatggcc aaggaccatc tcgcccaagc taaatcaaag 180  
 gtttgtcatt aggccaacgg agaatgaaac tatcacttat actttactta tctgaagtcc 240  
 atgagatggg tgataaggct cagaggtaga tacacctatg acataggacg ggagaccata 300  
 attcctaaaa gaatatgtac catatataca acatgcatac gtttgccata ggtgcatcaa 360  
 gatgcgtact gagaacgcta tctaaatctt tgataactac actcctagca accacag 417

<210> 28531  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-018-Q1-K1-H11  
 <400> 28531

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 gatgatggct tttgccggtc cttatcctaa gatgaatatg gaccacttg tgaaggcatt 180  
 ggccgaatgc catccgcgga gggaaacttg tacccttaaa ttgctattgg gtaaccgcaa 240  
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<210> 28532  
 <211> 283



<212> DNA  
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<223> Clone ID: LIB3067-018-Q1-K1-H12

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 gtggggggccc gcgggtcccg ctccacctgc aaccgatcc tgacacgcct cgcgggtgctg 180  
 cggaactcga gcccgctggc cgcggccacc gatgcccag gggatatgct actccgcttc 240  
 gcctgggagt ccgcgcggg ctccctcgta agctccgctg ttg 283

<210> 28533  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H2

<400> 28533

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 ctaatatata caatgggggtt ccttattttg gtgcacctga gccctccctt cctccagatg 180  
 caacaaacac catttatggt gagggcctcc ctatcaactg tactagacgg gaagttgcgc 240  
 gtatccttgt gtggatgatg atttctcttt ctgatcttat tatgaaactg agttgtttgc 300  
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<210> 28534  
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 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H3

<400> 28534

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 tatecttatc ttagttcttt caggacttcc ctgatcattt gcatgaaagg gccgtttact 180

ctcagcaaat gtcatgatta cgattttttt agtatacctaa ttgctgtag ttgatagctg 240  
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 ttggtataa cttattccac ttg 323

<210> 28535  
 <211> 96  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H5

<400> 28535

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 agtgcccaac aacatgggtcc caaaggctga ctaatc 96

<210> 28536  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H6

<400> 28536

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<210> 28537  
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 <212> DNA  
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<223> Clone ID: LIB3067-018-Q1-K1-H7

<400> 28537

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<210> 28538  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

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ttattcccga cttgagaagt ttgatcgggt ggatattttt caagagtaca ttcgacacct 180  
agagaaagaa gaggaagagc agaagcgggt acaaaaggat caagtgagaa gacaagagag 240  
gaaaaaccgt gatggggtttc gtaaaatgct ggaagaacat gttgctgatg gcacacttaa 300  
tgcaagaact cnttggcgtg attactgtgc acagataaaa gattcacagt cctacttggc 360  
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<210> 28539

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A1

<400> 28539

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gggtgtggctt gacccaacg aggtctacga gatctcgatg gctaactcgc gtcagaacat 180  
tcgtaagctg gtgaaggatg gattcataat taagaagcca cagaaaatcc actcaaggtc 240  
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caggggtacc agggaggcta ggctccccac caagatcctt tggatgcgca agatgcgtgt 360  
ccctaagcgt ctgctgcgca agtatcgtga agcaaagaaa atcgacaaac acatgtacca 420  
cgatatgtat atgaaagtaa aaggaacatg gtttaaaa 458

<210> 28540

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A10

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 ctctggaagg cgacgtgtct ttggaggacc ttaatgaagg tgttcgacct ggccatagcc 240  
 gcttcttttg gtcatatagc agctctgatt acgattccgg gcagtacaac gaggacatgc 300  
 agaagttcag gaaggcggcg ttcaataaca acacctacac cagcagccaa tacagcgcgc 360  
 caaccagtga atactgccag gtgccgtctg gatc 394

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 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A11

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 agaatgagga cttctcccca agccagctaa gtcaaagtgt cggatctcat gcaacgatga 180  
 tggccaacac cctttgcaca ccaatcattg tatctacaca gacaggctcc atggctgtcc 240  
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 agcaacggct agcaactctac cagggcgtca tccctattca catgcagttc tctgacgacg 360  
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<223> Clone ID: LIB3067-019-Q1-K1-A2

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gcagtcgtag gtgatttcgg gcttgccaag cttatggact acaaggatac ccatgtcaca 180  
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 <211> 331  
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 <223> Clone ID: LIB3067-019-Q1-K1-A3

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 ccaagacccc tggacctggg gccagtatg ccctcatggc gcttgctcat tccgggatga 240  
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 <223> Clone ID: LIB3067-019-Q1-K1-A4

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 taccatctt gctctccgtg gtgctcttgg tagttcaagc tcataccttg agcaagccag 180  
 gggctacacg tcttccctc tagcagctct gcgaccaaag atgtcttcta ctactggaaa 240  
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ccaccttcct ctgaagaagc cacagttcag cgcgactttc tcaatctcgc atcgtatatatt 360  
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 gtttggtgtc tgagagcgat ttgctgcgtc 450

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-019-Q1-K1-A5  
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<210> 28546  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-018-Q1-K1-H10  
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<210> 28547  
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<223> Clone ID: LIB3067-019-Q1-K1-A7

<400> 28547

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<210> 28548  
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 <212> DNA  
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<223> Clone ID: LIB3067-019-Q1-K1-A8

<400> 28548

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 ctacatgatc gaaggggttg accgttctga actaccgaca cctgaagtat acgccaagcg 180  
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<210> 28549  
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<223> Clone ID: LIB3067-018-Q1-K1-F11

<400> 28549

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accagggctt gtgctctgca agaacgatct cccctgagat gaggagcaac ccagactctg 180  
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atgaccatgg attcagcgat cttgacagac accggttttag aaagactagc cctatgtctt 360  
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<210> 28550  
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<213> Zea mays  
<223> Clone ID: LIB3067-018-Q1-K1-F12  
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tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180  
acctacggcg aggtcctcga gtccaagatt atcctcgatc gggagacgca gaggtcccg 240  
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aacggcaagg agctggacgg ccgcaacatc accgtcaagc tcaacatgct tgccaacgat 360  
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<210> 28551  
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 cgctgccaaг gagggcgгcg agggcaataa gggcaagtaa aaggгcttga agagcgттта 240  
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 aagcgagacg atcagcagtt ccccgagatg ttggcatgga aagccatgca gcatgtcgcc 240  
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 catggcatat gttgttctga agcaaaatcc ataatgcaaa atgcttttct tgatgaaata 240  
 tatggctact actcggtgag aagttccgaa tggattaagc actactcctt gccagattac 300  
 cttgctaagg ttgaggaaag tatggaaatg gaaaccaaga gggтggctta ctatctggaa 360

atttcaagtg gggatagcta cccgctctgt ttgcagggt gtaatgctcc tttgatggaa 420  
acata 425

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aaaacagatc cttttgtgtt tttgatttgg tgtacgagac aagattatgg tgaaaaaata 180  
ttttatgg 188

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<213> Zea mays  
  
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atagacattg acttctcaca gtgcctacag cttcaaacga tacctcagct tgtttttgca 180  
ttgttgagaa gtccgtgttct tcgcttgcac gaagaaggcg tgctcccaga ttacaggata 240  
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gtttta 306

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<213> Zea mays  
  
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 aaggagcagg gcaagctggt ggtcatcgac ttcatggccc cctggtgcag tgggtgccag 180  
 atgatggccc cgggtgtacgc ggactgcgcc agcaagtacc cttccgcggt cttcctcgag 240  
 gtcgacgtcg acgaactgct ggaacggcga gacgctcgag agctttgcta ccgtcgacga 300  
 ggacgagctc cgggacgccg tcaggaagta cgccggcgct ggcaactacga cggctcctgc 360  
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 <213> Zea mays  
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 cgccgcgcatg ccactgccta cccgtcgctc cgcttctcgc gcctgctcaa gcaacccgac 180  
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 accggtccc cgaccgccag cctcgggagg ccgatttccg cctcgtcccc ccacttcccc 360  
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 <400> 28558

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<210> 28559

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-G10

<400> 28559

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aacttaggat atgggtgatg gtctgatccc aatggacaat ggtctcctac tttctcgatt 180

cgacgcctga gagacgcctg attccatacc atatgcctgt ggttgtagtt tgtaaaatgc 240

taaaaacttg actttgctag tatatttcct aatgctataa cccaatcctg ggtaaacaga 300

cgcatgggga tgaatcttgg acggaaccat ggacatttga tgtatgtgtt taatgttgcg 360

tacaatctat gtcgaattct gttgtaagtg ccgttcgcat agttttatat ctttgtgccc 420

gttattacag gtcttaa 437

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<212> DNA

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<223> Clone ID: LIB3067-018-Q1-K1-G12

<400> 28560

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ctcagttttc atgaaagggt ctatggatca cgcggaaggg acgagagcag atcaaacaat 180

gatggattcc gtgctaggag cagaagtcct ggcaagcctg tggaagtttc caactggtga 240

ttgcatccac taggtgcaat ccaatttttg cgatggtgac gaaaccaagt aaaagatgggt 300

acctcgacaa gttatatttt actcttatcc tgcttaaate taaggatgtc ctggaacatc 360

actaacttat gatatgggtg atggtctgat cccaatggac aatggtctcc tactttcttg 420

atttgacgcc tgagaga 437

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 <213> Zea mays  
  
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 aagaagagaa ggtggaagag aaggaagaaa gcgatgatga tatgggcttc agcctcttcg 240  
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 tcatgttttag attttaaggc ttgtttatgt tggaaagtac tggaaagact gctacttgtc 360  
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 <223> unsure at all n locations  
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 ngtggtctatt gataaaaaag atttctttta tgggcaatca cattaatacc accttaagtt 180  
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 aatcaacaaa ttcacat 257

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 cactcaatca gtgcaacgct atatccgaag ggatcatgac cgatgaactg aggagtttcc 360  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-018-Q1-K1-F1  
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 gaagcgaagg catacatcaa agttaagtgg cgaagaacat gttcaggagt tgctccaagg 180  
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 <223> Clone ID: LIB3067-018-Q1-K1-G8  
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 agggaaaaaa aaaaaaaaaa aaaagacaaa aaaaaaaaaa aaaa 104

<210> 28566  
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<223> Clone ID: LIB3067-018-Q1-K1-G9

<400> 28566

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gggcgtgctg gcccccttat cggatcagtt gacaaagcca ctcccacatg caattgtact 180  
tgtcaacctc gacgaattgt caagtgggtc acacaaactt ttgccagaag gcactagact 240  
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<210> 28567

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C8

<400> 28567

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aaagaaaaat aaata 195

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<212> DNA

<213> Zea mays

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ccgcccctag gacgccaacc ctgaggagtc caaaatcgga accttaaccc cggctcttggg 180

caccaaccat aaggccaggg cccacaggtt ttacacattc acaggacacg cctccgaggg 240  
 ttcttcgcga aaagttaacc ccacaacatg aaagggatct aagggcgacc ccatgtgctc 300  
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<223> Clone ID: LIB3067-018-Q1-K1-D1

<400> 28569

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 taccattggc cgctccaag gtcaagggtc caattgcggt tccctcgagg aggttgccc 179

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<223> Clone ID: LIB3067-018-Q1-K1-D11

<400> 28570

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 cggccgcggc cccgacgcca gccttgtggc ccgcgtgcag gggatcacca gcgaaatcgg 360  
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 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3067-018-Q1-K1-D12

<400> 28571

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aagggatgcg attgcttggg ctacataaaa tattttgatg cacatttcac aaacttcaact 180  
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gtttcattta tctgtacagt tgcaaaactat gagtatggtt ttactggca cttctatcag 360  
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<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-D2

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<210> 28573

<211> 292

<212> DNA

<213> Zea mays

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 <212> DNA  
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 <223> unsure at all n locations  
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tgtgaagaaa ggcgngtga ggttcagcat caacgggccc gactacttcg agctgggtgt 300  
ca 302

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<213> Zea mays  
  
<223> Clone ID: LIB3067-018-Q1-K1-E11  
  
<400> 28577

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<213> Zea mays  
  
<223> Clone ID: LIB3067-018-Q1-K1-E2  
  
<400> 28578

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<210> 28579  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-018-Q1-K1-E3

<400> 28579

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaag gg 162

<210> 28580

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E4

<400> 28580

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cggagtacgg cagtcgcacc cccgtcgtcc cgttccttgg tcgacccaaa ttcgccggcg 180

cgttcccctc ggctcctagt gatgtctggt ggtaacgcgt ggtcgccggt cccttcgcac 240

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<210> 28581

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E6

<400> 28581

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cctaaggagc tgggtatacc gaccaaagcg tactacgctg tggaggatgt taaatagaat 180

gcaactcaga aaagtcagaa tgtatttgtc catgttcctt cagaaattg 229

<210> 28582

<211> 477

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
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tagttgcctg ttctctaaga tttgggtgggt cgtttccctt gaatgtgata ttcattcttgc 360  
ctttatttnc attttaccct ttgattatat gtcttgctaa ctaagacatt gttttgttta 420  
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<210> 28583

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-E8

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<210> 28584

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C6

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taaattctaa accaggcctg ttctgttctc ccogaacgag gactagaact agccaaactg 180  
ttagaaacga acggcctcct aggtcttgtt cgtttacacc aatccagctc tgtattaaca 240  
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gcgtgtggaa ctacagtcta ccgttcatat ccgacgttgt agatcctagc gcgaatgggt 360  
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ttcaatggga ggagcaagtt cgtcgtggcg catctttggc agagaaaagt ctcagtgcaa 300  
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<210> 28586  
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tcgaccaaac cacggctgaa aagggaaatc ttggagtgcc actgctgcca ggccaaggtt 180  
gctcgtttta tagcttcaag acaaacacat acaaactgaa cttcatggag agcccttctg 240  
gtataaagct tatattaatt acacatccaa ggactggtga tcagcgagac tcgctaaaac 300  
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caatcaagtg tgaaactttc aattaaacat ctga 395

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<223> Clone ID: LIB3067-018-Q1-K1-B11

<400> 28587

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 tgcgtccgtc cgccttgcta caagcaggca gccacaccaa taagctagct cttgttggtg 300  
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<223> Clone ID: LIB3067-018-Q1-K1-B2

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 ggcctgtggg tctggcctga tggaaaggcc gtttgtccaa aaggtcgctg ccctgttgaa 180  
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<223> Clone ID: LIB3067-018-Q1-K1-B3

<400> 28589

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 gccgacccat cccccaacct cttcgtctcc ggcttaagca agcgtaccac aagtgaagga 180  
 cttagagatg cctttgcgga gtttggtgaa gttttgcatg ctcgagttgt gaccgatcgt 240  
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 aagggaat 308

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 aggacaagat tagacctctt tggaggcatt acttccagaa caccaggggt cttatctttg 180  
 ttgtggacag caatgaccgt gaccgtgttg ttgaagccag agatgagctc cacaggatgc 240  
 tgaacgagga tgagctacgt gatgctgtgc tgcttgtttt tgccaacaag caagatcttc 300  
 ccaatgccat gaatgctgct gagaatactg acaagcttgg attaca 346

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 <212> DNA  
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 <223> Clone ID: LIB3067-018-Q1-K1-B5

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 ccgccgctgc ggcgggaaat agccacgcca cctccgcttc gccggtggac gccctcttgc 180  
 tccagaacct catgaccgcg gttcagctcc gaccgccctt cctcgacacc aactcattcc 240  
 tcacccagga ccttgacgac ttctctctca acgagttcgc cgcgctatcc gccgctgcag 300  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-018-Q1-K1-B7  
  
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 ttggccctga gcagtatgag aaaactgctt ctggcgaggagg cggaactggc ttcgaggggtg 180  
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 tcgaactatc atttgtggaa gcagttcaag gttgcagcaa aacggtcacc ttccaaacgt 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 aaggagatcg aggccgtccc caaagacgag ggctaccgca aggccgttga gtccttcacc 240  
 aatcaccgnc ttcagatctg ccaggaggag gacgactgga agcgcatcga ggaccgaatc 300  
 ggatg 305

<210> 28595  
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 cgtcgcctgc gagatcgcg gcctgccgga tgacctctg tcagcggcg tcggccggac 180  
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 gctccccgcc gacgcgacgg ccaccaagaa gcagctcttc atgcgcctct acgaccccca 360  
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<210> 28596  
 <211> 376  
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 <223> Clone ID: LIB3067-018-Q1-K1-C1  
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tgagttgcaa acaatgaacg tgcagcagcc cgctgatgtt gccggaccca gcgagggggt 300  
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gggttggaact tacggg 376

<210> 28597  
<211> 71  
<212> DNA  
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<223> Clone ID: LIB3067-018-Q1-K1-C10

<400> 28597

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<210> 28598  
<211> 176  
<212> DNA  
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<223> Clone ID: LIB3067-018-Q1-K1-C11

<400> 28598

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gctttgcaat gtcattggag agcgtttaac tatgtatcac ctgtatatcc gttgat 176

<210> 28599  
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<212> DNA  
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<223> Clone ID: LIB3067-018-Q1-K1-C12

<400> 28599

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gccgagaagg cgcccgccgg gaagaagccg aaggcggaga agcgggtccc cgctggcaag 180  
tccgctgcca aggagggcgg cgagggcaag aggggcaaga agaagggcaa gaagagcgtg 240

gagacctaca agatctacat cttcaagggtg ctgaagcagg tgcacccgga cattggcatc 300  
tctccaagg ccatgtcgat catgaactcc ttcattaacg atatcttcga gaagctcgct 360  
gctgaggccg tcaagctcgc gcgctataac aagaagccta ccatcacctg ccgtgagatc 420  
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<210> 28600

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C2

<400> 28600

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atagtcctcc accaaagaca agtagctcta cttctgccac atcattctct attgcatctc 180  
ttcagcaata taaaaatagc ttcagagagg agaattgtgat aagagagagt agattaggaa 240  
aggtttacct agcagagctt cctgatggca agttattgga ggttttgaag attgacaatg 300  
ctaattgggaa gaatatcaag tgatgacttt ctaaaaaagg ttgaatgtat cttagatatc 360  
aagcatccta aca 373

<210> 28601

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C3

<400> 28601

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agttgacgac tagagggtgt ctgcttaatt aattgcttgc ccgtcgcgat ggttactggt 180  
tctttcagga tgactcgttc tgggtgtgtaa gatcagggtga tgtgcagctc ccccttctct 240  
tgcatgatta gccccctcc ttgagtgcaa gtgtagacat aggatgctat ctgtttgttt 300  
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374

<210> 28602

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C5

<400> 28602

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ggcagaaata acaagggtg tcggccttct ggctc 95

<210> 28603

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A9

<400> 28603

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gagcattgcc atcatatgca tcattcagaa atccaggatc agggccgtaa aagggttgga 120

ctatgtatct gcaacatcgc aagcaacagg gaggtgtct cttcagaaat tttcaagagg 180

acgtgtcagt aacatactca ggaggccgtc tcttcattca aagagtatct tttacacgac 240

ttcttgagta taaaaaactc atttgtacaa tctacctgt ctattgaatt gtcttttagaa 300

aaaaaaagtc tttattgtat gtactttttt tttttatctt ttatgcctga agaactgttt 360

tccccttttc ttttagaagt aggagccggt aaagctactc tttcaatttg tcacaagcat 420

tattttatctt tataatttgt cctctg 446

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<211> 421

<212> DNA

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<400> 28604

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atgaagcttc ctctgctcat agatgttctc tccaagaaga atcttcagca ggaatttctt 180  
gaccacggag ttctcactct tctaaaaaat tggttgagc cattacctga tggaagcatg 240  
ccaaacatga atattcgatc tgctgtactg aaattattaa ctgattttcc aattgacttg 300  
gaacagtatg accgaagaga gcagcttaag aaaagtggc tgggaaaggt cattatgttg 360  
ttgtccagat ctgacgagga gactactgca aataggaaat tggctaagga gctggttgat 420  
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<210> 28605  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H3

<400> 28605

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aggaacgcgc cgatgacatt cgagtcgggtg atgttgggca gctcgggtgcg ctgcttcgag 180  
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caggaatttc cggggcgcac gta 263

<210> 28606  
<211> 445  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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gatccaagga aggctgagaa gatagcatct cggatgattt atgaggatag aatgcggggc 240  
tcaattgatc aggttgaggc tgtgatacat tttgatgatg acacggaaga gctgcagcaa 300

tgggatcagc agattgctgg actgtgcccc gccctgaatg acatccttga cagcatgtca 360  
 agcaagggaa taactattcc ggtgtgaata aatatctcat gctgtcggtc gatgggtgcat 420  
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<210> 28607  
 <211> 401  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-017-Q1-K1-H5  
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<210> 28608  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-017-Q1-K1-H7  
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 atggttcttc ttcttctc agttcttcca ggccttcag gcccaattca ttttgacca 180  
 ccatcttatt cctccatgac accttgatg aagctagtag tgtatacagc aggacattgt 240  
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 gctgggtgtg agaaggcact gctatggtct tgggatggct ctgtggtggg tggattaagg 360  
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452

<210> 28609

<211> 424

<212> DNA

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<400> 28609

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acatcattgc gccacttaag gacaaaagaa tgcttctcac cattcctctt atagcatatt 180  
caggtttaca acaggcattt gtatgggcgg tattcacaaa gagtattgta acaccggttc 240  
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<210> 28610

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H9

<400> 28610

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<210> 28611

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A1

<400> 28611



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ctcgaactcc caccatcgcc gccgccgccc atggcgaagg agttccccgt gccaccggtg 180  
gtcttcacgc cgtccacccc aacacaccgt cggcaccctc ccccgggcat gggggactcc 240  
cctccgcccc cgttcgcgcc gccacgtccc tccacctcat ccgtcgtaa cccgtccct 300  
ttcatgtcgt tcgatgtc 318

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<212> DNA  
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<223> Clone ID: LIB3067-018-Q1-K1-A10

<400> 28612

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gaggactaat gttacaacaa ttgagaaagg cgtatggcga ttttcatgtc ccaaagttaa 180  
cttgctgacc tttcattgat attcggttgc acgtaggcaa tgtattagaa gttcactttc 240  
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<210> 28613  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A11

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ttgacttcct ccaggaaacc aggggaagag aaggttgtct cataaatttg tacaaaaaat 420  
gactatttca ccttg 435

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<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A2

<400> 28614

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gatggtgcat tggaccagta cataacaaga accaatgtga tgaatttaca ggaaactaac 180  
gatggttttg ccggtgagct cgaggaagcg tacatgctgt ctagaattgt tagctagtaa 240  
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acat 304

<210> 28615  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-A3

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cgcgggcgca tcatactaaa ttactaatta cgtttctcct ctgctcgtcc accgccagtt 300  
tctgtgtttc tcatagcaag tagaactaaa gcacctcaaa gatgtaaagt tatgtatgca 360  
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 <223> Clone ID: LIB3067-018-Q1-K1-A4  
  
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 accgtgttgg ggatctggac cgcacaatca agtactacac agaatgcttt gggatgaaac 240  
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 <213> Zea mays  
  
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 cggctaggct gagtaccatc gccgaggacg acaggagat gctggcgctg tgcgggtcac 180  
 cgtcggacca cggccacgcg caggcgcagg tggcggcgag gttcatgacg gaagtggcgc 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-018-Q1-K1-A6  
  
 <400> 28618

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cctcagtgtg atcgccaccg aggttagtca ggagggacag gaatatctgg tgatggcagc 180  
tcggaactcc ccagactcga tcaaggatat tacaacaacg ttcagggtc ttggaagatt 240  
gaattggcca tcagagtatg aggattatca tgtgggcatt ccgtttggta cccttcttac 300  
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<210> 28619  
<211> 106  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-018-Q1-K1-A7  
<400> 28619

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ggaagttttg ctgcaagcct ctgagaatct gaatatacag tcatac 106

<210> 28620  
<211> 322  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-018-Q1-K1-A8  
<400> 28620

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gtgctccgtc tcaggggtgg tatgcagatc tttgtgaaga cactcactgg caagacaatc 180  
acccttgagg tggagtcttc ggataccatt gacaatgtca aggccaagat ccaggacaag 240  
gagggcatcc caccgacca gcagcgctc atcttcgccg gcaagcagct ggaggatggc 300  
cgcacctgg cggtattaca ca 322

<210> 28621  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H11

<400> 28621

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cagcactgct cgtgagagaa cagagagaag tcgatgttga aagggtgaag aaacaagcga 180  
gaaagggaaa tgaagaacta tcgtggacgt tggcggacgg gagtcttcca tgcggaactc 240  
tagcatgcac ttggactttg gacttcatgc gtctgtccgt cgacgtgagt tatctattgc 300  
gaatccaaac caaaaatcaa tgtgtgtgtc tgcaccacga tgacggctac gatgtggccg 360  
gatgagacct tgttcggggg gcttgtgcct gcggagccag atccgcgtcg ggaccatgcc 420  
tgacca 426

<210> 28622

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F12

<400> 28622

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ctgaatgttg gtgcacccca ttgtaaaggg tatggaatgc ttatcctaag agagtggaaa 180  
gttacatgaa aaatgtaaaa acattgatgt taaaattagt caatgatata tagggaagtc 240  
tccaaacat tgtgatgaag atatgagatt ggacgggtct gtccgacagt tgatctgggt 300  
gacaagtgct gtgtgcttgt atgcaccact tgctgggagg atgtgggca 349

<210> 28623

<211> 109

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F2

<400> 28623

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tgcttagttt gtttcttcaa tgaaagatga cagttgcgtt ttacctgtc 109

<210> 28624  
<211> 221  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F3

<400> 28624

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accctgatgc cccaataatc cttcattacc ctgccttttt tctgtttctg ttcgaggcgc 180  
cactctcttc agggattctg tcacctgggt atcgcttttt t 221

<210> 28625  
<211> 457  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F4

<400> 28625

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ctccggctgc cgccaccacc cgcgcggctg gttggggctg tccacggaca cagcgcgtcg 180  
acgtctggca ggttgctgcg gggattcgcc gcgcgttcgt gtcctgctcg agcactagct 240  
ctggcgggca ggggggatta acatataagg atgccggcgt ggacatagac gccggcgccg 300  
agctcgtgcg ccgcacgcgc aggatggcac ccgggattgg cggcttcggc ggtctcttcc 360  
cctacaatga cgattatctt gttgctagca ccgatggggt ggggacaaag ctgaagcttg 420  
ctttcgaaac tggattcat gatacaatcg gcattga 457

<210> 28626  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F7

<400> 28626

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acacatggac acccgctat tccacgcgga gactgttcac cccgacgagc ttgaccagga 180

gcttgacacc tttccactt tacggccatg atacgtcttg cggatgcggt tcgacaggct 240

gctcatcggt gccttgagga tccagaccgt ggtcagtgac cttgctactc agggcgagcg 300

gttgagtcga gtgctgagct ggacggaccc aatgtccacc ggctgttcg ttgacctatg 360

ctttgttggc gccattttgc tgtacgttac acccttt 397

<210> 28627

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F9

<400> 28627

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agtgcccggc aggaggccct gcaaaggaaa aaggctgaaa agaagaaact catcgaggag 180

gcagatgcca aactaagcgc tgagtcactc cggaagaaaag aagaaaagga aagggtcgg 240

caaataaga agtctggacc caaagtgaag atgctccgct cttaacaacg tcatgattca 300

agaatctatc atatcttggc ttttgctatt cacctgttga ttagcatata gttcagtgct 360

tgctagactc atttatatcc taatcctgtg agaatgagca aaaaggatcc aggagaaaag 420

aatccttact ggcgtttcgc ttttattgga t 451

<210> 28628

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-G1

<400> 28628

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gacgatggcg gctgtgctga acagcaggaa gacgccgcag gtggtggccg tgctggtggt 120  
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 gctggcgccg tgcattccctt acgcgacggg gagggccagc gcgctccctt cgtcgtgctg 240  
 cagcggcgtc aagagcctca acagcgcggc gcggaccagc gcggaccgtc aggcggcgctg 300  
 ccgctgcctc aagagcctcg ccaacagcgt caagagcgtc aacatgggca ccgtcgtcac 360  
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 caagatcagc taagttacga cgaccaagct 450

<210> 28629  
 <211> 449  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-017-Q1-K1-G11  
 <400> 28629

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 gcaggtcaaa gccaaagcagg ttactttcca caggaagaag aatctgcagt actatgaaat 180  
 ttctgccaaag agcaactaca actttgagaa acctttcctg tacctcgcaa ggaagctggc 240  
 tgggtgatccg aaccttcact ttgttgaagc tgttgcctt aagcctccgg aagttaccat 300  
 cgacatggct atgcagcagc agcatgaagc tgagcttgct gcatcagctg cacaacctct 360  
 tctgatgac gatgatgac tgattgagta gaaaggatca tgagtcttga acttgagcag 420  
 gagttgtgcc ttgcgtgttt taagtggtc 449

<210> 28630  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-017-Q1-K1-G12  
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tgccaggctc ttcacgtccc aggctggaag tgatgggtggc gatacccaga agccctttat 180  
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 cagtgagaaa ggggagttga tcctagaaat cataaaggaa gggaggattg ttccgtctga 360  
 gataactgtg gaactcatca gaaaagcgat ggaaatgaac aatgctaaaa gggttcttat 420  
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<210> 28631  
 <211> 231  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-017-Q1-K1-G2  
 <400> 28631

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 ttgcggtcgc tctggtcgtg gtggtggccg cggcctgcct tgccgcgccg cggggcgccg 180  
 actggccggc cgagtgtgtg gcgacgtcct gagagaccgc tgctgtgagg c 231

<210> 28632  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-017-Q1-K1-G3  
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 ggcgcccccg gcggccggca tcaactaccga gcagatccag aagtatttgg acgaaaataa 180  
 gcaacttatt ttggccatcc tggaaaatca gaacttatgg aagttggctg aatgtgtctca 240  
 gtatcaagct caacttcaaa agaacctctt gtacctggct gcgattgctg atgccaacc 300  
 ccagccttcg caaaacctg caggctgccc tcagatgatg cagcctggta tagtgcttg 360

tgcggtgcat tacatgtcac aagtaccaat gttccctnca agaaccocat taaccccaca 420  
gcagatgcat gagcagcagc aacaacaa 448

<210> 28633  
<211> 256  
<212> DNA  
<213> Zea mays  
  
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gttgctctgc gagattgaag cgaggtgttc ctaggagcca gaagggggcac cgcattgggtt 180  
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accgaataac cgatac 256

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<211> 500  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-017-Q1-K1-G5  
  
<400> 28634

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gaatctacgt ggtcagtgtg atcttagagc acgtcatgca tctcatgtcc ctgaacatag 180  
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cgttcgggtc ctgagaagag gcagcgggtt ccgtcggcgt ataacagatt catcaaggaa 420  
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<211> 454  
 <212> DNA  
 <213> Zea mays  
  
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 ttccaagtgt tcaacctttc catgccattg cttatcctat tgatccattg cttgctttgg 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-017-Q1-K1-G8  
  
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 gcgagaggaa ggaggaacag caggggcttc aaggtctaag tggccactgc cttgccaatc 180  
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 ataaaaatgt ttagaata 318

<210> 28637  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-017-Q1-K1-G9

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taaggatgcg aagtataggc gcagaaaaac catccatcct agagcagcat aagcctgctg 180

catttgtaat atattcgaaa tccgtatttt ttttcttcac aagcactact ctatatacga 240

tgaataaaag ggcgacaata cagtgtcatc ttgtagccac ctaagatgcg aaagagaaaa 300

gaatgccggc tgttcaatgt tctgggcttg ttctgttatt gcttgtcgtc tttcatactg 360

aacaagcatg gccttttgtg t 381

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<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H1

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tgccatgtgt gatcgtctaa agcctatgct ctacacagaa ggaagctgca tcattcgcga 180

aggtgatcca gtgaatgaaa tgctcttcat catgagagga aactagaga gtaccacaac 240

aaatgggtggg caaactgggt tcttcaactc taatgttcta aaaggtggag acttctgtgg 300

tgaagagctc ctcacgtggg cccttgaccc cacttcagct tcaaattctc ctgggtcaac 360

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<210> 28639

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-F11

<400> 28639

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gaagctcgcg acgctggcgc tggccgtgct cctggcggcg accgcggtgg ctcccccggc 180  
cgcggtgcgc gcggcgatgt cgtgctccac cgtgtacagc acgctgatgc cgtgcctgcc 240  
gttcgtccag atgggcgggg ccatgccgcc ccagccgtgc tgcggctgca tgcgcagcct 300  
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<210> 28640

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D6

<400> 28640

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ctcccggtgt accgcagcac cgtccctcag atggccatgg cggggttcct cccgttcagc 180  
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atctacagca tcctcttcat cgtgttcata atctcatca tcgtcacggc cttegtcacg 300  
gtggcgctca cctacttcca gctcgccgtc gaagaccacc aatgggtggg gagatctgtc 360  
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<210> 28641

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D7

<400> 28641

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tcttccttgg gctacctgtt cgggtggcaac tgatgcccggt gctgggtgcgc tcaccaaagt 420  
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<210> 28642  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D8

<400> 28642

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atgacgacac tgtttgacac tgtttgcaga gtggagtttg aaaaaggaaa taaaatacag 180  
gatgagataa agaatctgct agagataacc taagtcatcc actgcaggta tgctcccaac 240  
aatagcaagt actcaattca tattaaaatc caccctgtgg aattccatgg atggtggcat 300  
tgtcctttct atcaacaaa gcagatcact cgtggaacgg agtgagatcg atcttgaatg 360  
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<210> 28643  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E1

<400> 28643

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ggacgtgata gccgagctat aggagcatat gaactagcaa aagctgtgga agaattgggc 180  
gcaggagaaa tacttcttaa ctgcattgat tgtgatggcc aaggttgtgg atttgacata 240  
gatttggtta aaatggtttc tgatgctgtg acaatccctg tcattgcgag cagtgggtgct 300  
ggagctgttc aacatttttc tgaaattttt gagaaaacaa atgcttctgc tgcccttgct 360  
gctggcattt tccaccggaa agagggttct atactagcag tgaaagagca tctggccaat 420

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451

<210> 28644

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E10

<400> 28644

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actaggaata gagaaacctt gctattggga gccatatggc atgacaccaa agtataatag 180

acgatttgtt tatatgaatt gctagaatgg tagagtgggc tagtttttag ttgtgaggat 240

taagctgtct tatgttctctg ttaggccaca ggttttcatt tgactgggtac atcttttgtt 300

tgaaattaga cagcacatta gaactgtact gtgaaatgac tgtgccatga tgcccccta 360

ttcagtctaa aaataaatag ttgccccct atccagggtta aaattatagt atatttggga 420

gtctctggca ct 432

<210> 28645

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E12

<400> 28645

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tgggcgttga tattgattca ggtttaattg agactgctaa gtggaatctg cgaaggataa 120

tgcggcagga taaggtggct acaaacaacg tcaaagctca gaaatcatcg gattctcctc 180

agagctctcc agaagaattg gcatctgagt tatcgaatgg gaacaagcac caagatcttt 240

ttaaaattgt ctcttttcga cgtgaaaatt ttgtagcgag tatggatgga tgttcagaac 300

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atgggctagt tacgttatat gtgaagatc 389

<210> 28646

<211> 464  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E2

<400> 28646

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gaagaagggg aagtagggga attcgaagat gaagaagaca atgatgactc agtacctgat 180  
aacaaggatg aatcagagga aaaagagccc tggatgatcca aaagagcaga tgcaagggga 240  
gctgaacaat ggtaaaaatt tagatgctga tcaattaaaa gaggctgatg ttggttgcag 300  
tgatatgaaa aatgagaaag acgatgttga tatcaaacag caaggcaatg atggagaggg 360  
tacggggtaa gttgaggaac ctgttcatga gatgggtggg gattgtgaag gaaaaagtac 420  
gggtgacttc tctattgacc atgcaacaac tggggattaa aagc 464

<210> 28647  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E4

<400> 28647

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tgtgtcatg gaggctgttc agtggctctgg gaagaaccag cagcaaaaatt ccaatgcagc 180  
acttaggcag gtgaaagctt ggactgagct tttgaatgct ttttgcacga gtggcagact 240  
cgaactggaa cttatacaca aagttcagac acagtgctat gaggatgcta agctgatgaa 300  
gctgtttccg gaaatcataa gaacactgta tgaccaagat gtcctagctg aagatactat 360  
agtccttttg ttccgtaaag gttcaaaccg gaaaggcatg caatcttttg tg 412

<210> 28648  
<211> 441  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3067-017-Q1-K1-E5

<400> 28648

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cgacgtcccc agcgccatac gggggcgccc cccacccggc gatgtcgaag acggccgagt 180  
tcgtgggtctc taaggtggac gacctgatga actgggcgcg taagggctcg atctggccca 240  
tgaccttcgg gctcgctgc tgcgcggtgg agatgatgca cgccggcgcg tcccgtacg 300  
acttcgaccg gttcggcgtc atcttccgtc cgtcgccgcg ccagtcggat tgcgatgcg 360  
tcgccggcac gtcaccaac aagatggctc cgccctccg caagggttat gaccaaattg 420  
ctgagcctat gtgggttatt t 441

<210> 28649

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E7

<400> 28649

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caggtcgtgc tgaaagggtc cagccagcgg caagtttgaa aggattgggt gccttggttg 180  
taatggttcg acgacttcct gggagaaggc ctcatcggcg tgtttctttt tgccgtaatt 240  
ttcagttttc gggtaagggt aggcggccaa ggaatttgat tttcgatcat tcctgcccta 300  
tcatgcaaatt ggccaactgc ttgcgactgg ttttgcttac agcaagtttc cgtatacatt 360  
tcttgttcgt aaagatcaca agttcatcga ccaaactga agcatttgc 409

<210> 28650

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E8

<400> 28650

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 cgccacgatc gtgaaggcgg ccaacatcaa ggtcagagtc tactggccgg ccctcttcgc 180  
 caagctcctg gagaagcgca acgtcgagga cctcaccctc tccgttggat ctggtggcgg 240  
 agctgctcca gttgctgctg ccgcacctgc tgggtggtgct gcggctgctg ctgccccggc 300  
 tgtcgaggag aagaaggaag aggccaaagga ggagtctgat gacgacatgg gcttcagcct 360  
 gttcgactga ggagaccctc tcaccagcc attagcaaatt ttcacttggt ctgtcaaaga 420  
 ctatcttgtc ttatgttatg tctctagggc ttg 454

<210> 28651  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-017-Q1-K1-E9  
 <400> 28651

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 tttagaacac cagatgaagc tgatgacatc gactccaacc tacatgcctc atccgacctt 180  
 gatgctggcg cctttccctc aggcaccctc agcgtcgttc catgccagg ggcaagctgc 240  
 atggcagaag ctgatgatgc cctttgtcag ctatccgggg tacccaatgt ggcagttcca 300  
 tgccgccttc agaggtcgac acctcgaaga acagtgaagc gtgccctcct gttgcataat 360  
 tgcttcgact agcggctggt cctgctcaca ccatgcgaat tagtcgcaac tgaagcccc 420  
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<210> 28652  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-017-Q1-K1-F1  
 <400> 28652

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ttggaggaag gcctacttcc gcttgagaca acaagacatg tctctatgat aactataact 120  
 ctttcaaaga aggagctgga cacatcatct atcggatata aatctccttt gcctgctgat 180  
 gaagtgaagc ctttggttaa atatgataat gatgaagatg cacactcacc tgggtggccgt 240  
 gtaaggggtc gtggtggtcg aggccgtggg cggggcatgg gcagaggtgg acgtggaaat 300  
 gggttcaatg actatgctga tgccggttgg gaagactata acgcccctgc atatatgggc 360  
 aatggatatg cccgtggaag aggtcgtagt tttagggg 398

<210> 28653  
 <211> 463  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-017-Q1-K1-D5  
 <400> 28653

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 tttttctttt ctcttccttt atattccttt ccttctcttt ctttatcttc tattttcttt 180  
 ttatttacct tcattttatt aaatgttttt tttttaaaac ttttcttatt tgataattct 240  
 ttttcttttt tcatatttat tttttccat ctctctcact tttttaatt ctgttttatt 300  
 ttttaatttt ccttcacttt ctatctctta attaataatt gcattttttt tttatttttt 360  
 cattttcccc tttacttttt ctttaattccc tttctctttt atcttttact ttcttttttt 420  
 ccttttttct tttctatttc tctttttttc ctttcttttc ttt 463

<210> 28654  
 <211> 87  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-017-Q1-K1-B8  
 <400> 28654

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 atgggaaaat ttaataaaat aaaaata 87

<210> 28655

<211> 118  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-017-Q1-K1-B9  
  
 <400> 28655  
  
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 ggaaataaaa taaaaaaaaa tgataatcaa aaaaaataaa ataaaaaaaa ataaagac 118

<210> 28656  
 <211> 458  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-017-Q1-K1-C10  
  
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 tctacgacat cggccaggac gactacctgg agttcctctg cgtggagaac ctgacgccgt 180  
 tgcagctcag gtccttcacc aagaactcga gcaagacatg caagcacacc ttcagctcgc 240  
 cgggtgactt gaattatccg gccatctccg cgggtcttcgc ggagcagcca tctgctgcgc 300  
 tgacggtgcg tcgcaccgtg acgaacgtcg gccaccgcgc ttcgacttac catgtcaagg 360  
 ttacagagtt caaaggcgca gacattgtcg tcgaaccaag caccctgcac ttcacaagct 420  
 cgaaccagaa gctgacctac aaggtgacga tgacaacc 458

<210> 28657  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-017-Q1-K1-C11  
  
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 ggatcgcgtc aatgcggagc tggtcacgct cacttacggc gccatcgtgc ggcagttgct 180

cacggatctg gaggaggtcg aggaggtcaa caagcagctc gatcagatgg gttacaacat 240  
 tggaacacga ttggttgatg agttcttagc aaagtcaa atgtatcaaggt gtgttgactt 300  
 caaggagact gccgatgtta ttgcgaagct tggcttcaaa atgttcttgg gcgtgactgc 360  
 aaccgtgacc aattgggatg ctgatggtac aagtggagc cttgtcctgg aagacaaccc 420  
 tc 422

<210> 28658  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C12

<400> 28658

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 ccacagagct gccgagagtg tgctgtgctt tgctcatcga ccgaccgata gatctcggca 180  
 tggcggactg ggggccggtg ctgatcgggc tgggtgctctt catcctgctc tccccggggc 240  
 tgctcttcca gatccccggc aagggccgga tcatcgagtt cggcaacttc cagaccagcg 300  
 gcctctccat cctogtccac gccgtcatct acttcgccct cctcgccatc ttcctcctcg 360  
 ccgtcggcgt ccacatttac ctcggctagc tagtcgccgg cggggcggccg gctgagcgag 420  
 gctagctgct ggcg 434

<210> 28659  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C2

<400> 28659

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 ccgtattgat aatataaact ccttgagtga gattgactgt ggggagcaga aagaagcaag 180  
 caagagacca tatgcagtcg aagatactgt tatggcgaga ctgaaagttt tgaagtctcg 240

tcttgacaat ataacctctt tgagtcaagg aagcactaaa caccagctag atggaagcac 300  
aaacagtgca gataatgttg atgacactgt tatttctagg ctgggaattt tggagtccca 360  
tcctaataat gaagccctat tgggacagga aagcagcatg cgacaactgg atccgagaac 420  
aaatagagaa gatgggattg atgctgctgt ta 452

<210> 28660

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C4

<400> 28660

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gcatgcacat ataccgcctg cctgatggt gacgatggtg agccgccaag gtgaagagtg 180  
tacacgttcc cgttcatcca tccatcgctc ccttagtact gctgcccggg gattagtcga 240  
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ttgaatTTTT tttcttcccc cttctcccc cttctcttc cttctcattc ttttttcttt 360  
tagttttgtc cagaaatcga aagggtgtgtt gatttgatta agttttttaa ataccgtgcc 420  
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<210> 28661

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C5

<400> 28661

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gacctggaag aacaggccct tcagtttata ttggactgct gtgaatctaa tatagaaaaa 180  
tatacaaagt acttagaggg tggcgctggc tctccagaag ttccaatgaa tgcaaagcaa 240  
gccaacagaa cattactgct aaaacagcta gcaagagatc tgtgcatcag tgaacggaga 300

atcctgtatc gcacacaata tatattgctg agaagattga tggacatgat aggcggcgaa 360  
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 tcttatcttg gcagatctta ctggacagat tt 452

<210> 28662  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C6

<400> 28662

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 atcaccgctc togccttccg tccctgcgca tccgccgtgc ccattggacgg tggctggctg 180  
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 tccatcttcc aggacggcaa gggctgcggc acctgctacc aggtgaagtg caccggacac 360  
 gcgtcgtgct ccggcagccc ggtgacagtg gtcattaccg acctgtgccc tgaggctgcg 420  
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<210> 28663  
 <211> 137  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C7

<400> 28663

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 ataaagatta gtattttt 137

<210> 28664  
 <211> 461  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-C9

<400> 28664

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cactcacgtc aggatgcacg atgtcgtgcg cgacgcggcg ctccggctcg cgcccgccaa 180  
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tggcgccta gcggacgcgc agccggcgctc gctgatgctc cagtgcacaa aggcctgcc 360  
gaagaggatg cttcaggcga tccagcattt caccaaggct acatacctgg accttgagga 420  
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<210> 28665

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D1

<400> 28665

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cgcggcgcca ccgacgacga gctcaagaag gcctaccgtc gcctagccat gaagtaccat 180  
cccgataaga accctacgcc gcaggccgac accctcttca agcaggtctc cgaggcctac 240  
gacgtgctca gcgaccgcga gaagcgagcc atctacgacc agtacggcga ggaaggcctc 300  
aaggccggcg cgccttcgcc cgccgtcttc acgcaaggcg ccggcgccgg cgtccacagg 360  
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<210> 28666

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D10



<400> 28666

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gcgacccacg gcacggcaag tacatggctt gctgcctgat gtaccgcggc gacgtgggtc 240
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tcg 423

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<223> Clone ID: LIB3067-017-Q1-K1-D11

<400> 28667

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tctgaagagg agtacgagag cgacctcgac gacgcacccc tctccgcgtt gcggcgccgg 180
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ggcgcgtacg aagaaagcga ggagtacgat gaatacgagt gcgagaagga actcatggag 360
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gttgaaga 428

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 <211> 193  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-017-Q1-K1-D12

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 atggtgtccc caa 193

<210> 28669  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D2

<400> 28669

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 tccacagacc agaatgcatt ttcccgata atacattgaa gaaagttctc atgcaagcct 180  
 ctttgtgggg gaaaatgaag tcttaggat gttctgaaag tagtgactac ccatcatgtc 240  
 ttttgtaaca ttacttaatg taagcatatc tgatataggt atgcaaaggc tccaatagct 300  
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<210> 28670  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B7

<400> 28670

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 atatgtactt ttttctttta atttgcgctg aacttgatgc taccttggtg acaagagcag 180  
 atgtacgttt agtgcgatca ccaaggctgt ccgtatccca cggctgggct gttattttct 240  
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 tagttggatg gaaatcggca acagcattag ccatttcgga atagtgagcg cccaaattgt 360  
 cttcgttttg ctgctttttg ccctcacgaa tatatacact agagatatat tggtctcgtc 420

ttggcaacta acccgacgga aagtta

446

<210> 28671

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D3

<400> 28671

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tgtttttttg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaagggatg tagtaataaa agtacaaaag attattttaa 180

catttcatga aaaattaaaa tattactaat atgttaatta aattaaataa at 232

<210> 28672

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-D4

<400> 28672

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aaggggaaac aggcggtata aaaaaatata aaaccaaata taaaggcata ctc 113

<210> 28673

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H7

<400> 28673

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catcactata tatatacttg ggtttgtgta ttggttagctc tagttctgca ggcgtatacg 120

gcgtttaatt cgacctatgt tatcgagcgc gcgatatatg tgccgatata tccagtatat 180

cttgaggagg gactagtggg tatgtgtagt actggactaa ataccctgca tatgcatggt 240

ttgccagctc gctatgaatg tc 262

<210> 28674  
<211> 198  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H8

<400> 28674

cccacgcgtc cgcccacgcg tccgaaagcg tcgcgtcctt aacctgcgtg ttggtaggcg 60  
gtgttaggtg tgtggagacc ggccggcact atagagaact aaatcgaatg atggtgtact 120  
cagtacgtac tgacgtgtat gagtttgtgt tgatgtggac aacaataaag gcatgtgtac 180  
gcgtttgtta aaaaatat 198

<210> 28675  
<211> 146  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H9

<400> 28675

cccacgcgtc cgggtcccct gttctgatcg ttctgttcct cacagcagca tccatatgct 60  
ggggagcctt tgaagcaagc tgcccctcgt gcacaggaga ctgccgtgca catcgagtac 120  
gttgaccgtc ccgtggacgc cgaccc 146

<210> 28676  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A10

<400> 28676

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gacactccaa gccctaagcc accggctacc aagcctccca cgcccaagcc gaccccgcca 120  
acgtacaccc cttcgccaaa gcctccgaca cccaagccga ccccgccgac gtacacccct 180  
tctcccaagc cttcgacgcc caagccgacc ccgccgacgt aactccaag cccaagcct 240  
tccacacacc cgacgcccga gccgacccca ccgacgtaca ccccttcccc aaagccttcg 300

acgccaagc cgacctcacc gacgtacacc tcttcccac agcctgcgac acccaagccg 360  
accgcaccga ctgacactcc cacaccgaag ccgtcgggtca ccaagccgcc cacctacact 420  
ccgacgcogt cgggtgtctta cac 443

<210> 28677  
<211> 477  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-017-Q1-K1-A11  
<400> 28677

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ctgcgtaatt atcggttctt ctatatgttt gtattctcga cgacattgct ctgcctctat 180  
gtatttgctt tctgttgggt gtatgtgatc aagattagag ctgctgagca atcgtcagtt 240  
tggaaggcct tgctgaagac accagcatca gttgctctga ttatctactg atttctctgt 300  
gtatgggtttg tgggtgggtt atctgtcttc catttatacc tgatgagcac taaccagaca 360  
acatatgaga atttcagata tcgctatgat cggcgcgata acccatataa caaagggtgtt 420  
ctgaacagat ttctagagat attctgcact ggtatcccc cttcgaagaa aatttttc 477

<210> 28678  
<211> 413  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-017-Q1-K1-A2  
<400> 28678

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aattccagat atcagacgag tgcttttctt gaaaatacct gaagcacgca aacagttgct 180  
aatgtctgag ctggatagag tggtcagga ctacaagatc catcgcgatg agattcacag 240  
taaacttgtc cagatcatga gagagaggct gcttgcaaatt cttagaaaat taccctaaat 300  
tgtggaaggc tggaatgcc cacaagataa tgatgtgcag ccgagtcaat ttgctaaagc 360

tggtacaaag gaagttacct atttgaccg tatectttct caaacactgc ttg 413

<210> 28679  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A3

<400> 28679

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tacggcgaga tggtcgtcct cgtccgcgac ggcgtcgagt tccacgtcga caagatcccg 120  
tcagctcctg gaggtcatgt gaaaacaaaa ggcacaattt acctgtccaa ttttaaggatg 180  
gggtttgtgg ccagcaagcc tgttggaac ttctttgctt tggttttgcc actgtggttt 240  
gtgcatgggtg agaagttcaa tcagcccata tttcactgcc acaacatctc tggattcgtt 300  
gaaccagtcg ttccagacca tcagaacagg gccctgtact caacttacac ctttcagatc 360  
ctgttcaaag aatgccgctg tggaactttc ggttctt 397

<210> 28680  
<211> 88  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A5

<400> 28680

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tgtggaatac taaaaaaaaa caaagtac 88

<210> 28681  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A8

<400> 28681

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tggccgtcca ccatcccagc gtgatggctg ggaggaccgc gcctgcccc tcccctcctt 120

ctctctcacg ccctactccc tcgccgcccc ttcattcccag atcccgtcgc tgattctggc 180  
gagagcaggg gaagagtatg atgatgacta ttcgtgacag tgaattcctg ggaggtgggg 240  
gagaaaagga ttgcgttctg tggaggttgt tgtgcttggt agaaggattt gttctctctc 300  
ttttttcttt cttgtttctt tggccgtgtt tcagtgcacac tgttgatgga tcccagtgtc 360  
ttgcccgttt gatgcatcat ggtggtggtg gtgatgatgg atgacatagt ggtagggggg 420  
gtgtgctagt tggtaatggg gtattt 446

<210> 28682  
<211> 430  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-017-Q1-K1-B1  
<400> 28682

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ataaagaggt ccaccagct gaagaagctg atgaacgctt attgtgaccg ccagtctgtg 180  
gacatgaatg ccattgcgtt cctgtttgat ggccgcaggc ttcgcggcga gcagaccct 240  
gatgagctgg agatggagga cggcgacgag atcgatgcca tgcttcacca gaccggaagc 300  
agcgttcta gcaccaccta aaagcatcag tcgcgagct ttgttttgct ctccgccctg 360  
cgtagtagtt aacaaaatgg aaaaagtctt ttaaggaac ttgtgatgct ctggcttctt 420  
gtgccattgc 430

<210> 28683  
<211> 193  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-017-Q1-K1-B10  
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taacagcaaa ccaagatgga aaaagctcta tgaaggctta aaagagagca cgtctcatca 120  
tgaatggcct attcatttta ttttgtgtat gtttcacttg ccatgctttc tgatgcatgt 180

tattccaaaa ttg

193

<210> 28684

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B11

<400> 28684

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ggaaaaaaga ttgtctttga gagtgagtga gagagcaagc aggttgctag tagctgctgg 120  
tagagagagc tagctgttac agccgaccag gtagctagat agctagccat ggagccgggg 180  
tcgacgcccc cgaacggggtc ggcgccggcg acgcccggca cgccggcgcc gctgttctcc 240  
agcggcgggc cgcggggtga ctcgctgtcg tacgagcgca agtcgatgcc gcggtgcaag 300  
tgccctgccg tgccggcggt ggaggggtgg ggcgtggcga cgcacacctg cgtcgtcgag 360  
atccccgcgc cggacgtctc gtcaccocgc aagctgggcg ctgagttcgt gggcacgttc 420  
attctcatct tctt 434

<210> 28685

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H5

<400> 28685

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aggaaaaaaaa aaaataaaaa aataataaaa taaaaaaaaa taaaaaatTT aaaaataata 120  
ataaaaaata taaaaatata aaaataaaaa aatgggctac ccctttaaat ttcccatgtt 180  
tacattccca tattttcaac 200

<210> 28686

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B2



<400> 28686

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acgcg 65

<210> 28687

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B3

<400> 28687

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<210> 28688

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B5

<400> 28688

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ggagcgccca acctcccaat cgctgcccgc ctgcccgcgc cactccgccc cctgctgtca 120

ggcagcaatt ccaagaggga tactgttccg cttatcgagg ggcccacccc aaggcagacc 180

aacggctatg actgcggtgt ctatgtcatg gccatcgcca gggctttgtg cgcttggtgg 240

aagaatggcc aggaccaacg gggaggcgat tggttccagg cggtgaggag cggggtggac 300

gcccacagcg tcgaggccat gaggaccgac ttgctgcagc taatcaacac tctcatccaa 360

gaaaaggcca atgccaaatt cgacacccat gggcgacact gaccaggt ca 412

<210> 28689

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B6

<400> 28689

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tgcattgggaa attagttcat ttttccttgg gaaattgaaa atcccataga aaaatgtggt 120  
 tgacaaacta gcctttatgt gtgtatggct agttttcttca attcgtgagt gcgtggtagt 180  
 accaataagc aataagacgc agagggatcg atcaaaaaaa aaaataaaaa aaaaaataaa 240  
 aaaaaaata aaaaacaaaa taaaatataa taaaattaaa aaatttttaa aaatatataa 300  
 tct 303

<210> 28690  
 <211> 377  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-016-Q1-K1-F1  
 <400> 28690

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 gaaagacaac gatgcgagcc agtggaaaga ggaaaacaag gaactgttca tgccactgaa 120  
 tgaacaggtc aaagatccta aggagccagg ctcggttga gatgccctgg aggagaagga 180  
 agacctgttt tggcgtcaag ggttggttaat cattcagacc atatatcatg gtgccgtgga 240  
 agctcttccg tcaagcttaa ccttgcgga gaaattcttg gagatactaa acagtgttga 300  
 cttggcacat tctgatgagt taaaactaga agtcctggat gaccttaaga gagatttctc 360  
 ttatagcgag gactact 377

<210> 28691  
 <211> 366  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 28691

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 cctagcccgt ccgcccgt cctcctcccc caccgcgcga ttgcctccc tccgttgcc 120  
 cgctaccaag gtcgagatcg tcgagatcga cctcaccgag gaagacgctg gctcctcggc 180  
 ccacggctcc tccccctcgt ccccatcgat cgaggtggtt gggatccggc gcctggagga 240

ggccatccac ggcgtcatgg tgcgccgcgc cgctcccgat tggctgcctt tcgtgcctgg 300  
 aggggtcctac tgggtgcccc cgctgcgcct nccgcacgag gtcaccgcgt ttgtcggccg 360  
 gatcgc 366

<210> 28692  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
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 <400> 28692

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 ccttgagcgc gcagcctgcg ccacgcggga agcagcctcc tcctgcgctc cctcgatca 180  
 aactcccga gttgggtcac tggggcgta tgcagcctcc tcagcacggg agcgcttcgg 240  
 cgtcgtcgtc cgcgtcggcg tctcgccccg tctacagctt catgccggct ggtccggttc 300  
 gcattgacag accccggatc gggatcaagg ccgacga 337

<210> 28693  
 <211> 232  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-016-Q1-K1-F4  
 <400> 28693

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 cgtgcttctt tcgtgtgcca catctgaagg aggatgaaac cccaccctaa ggaggaactc 180  
 ctggatgggc agcaatttca agtgctcgaa ttggaccttg gttcgggttg tt 232

<210> 28694  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-016-Q1-K1-F6

<400> 28694

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agcttacttc aacaccataa aacgaacagc caagtatctg tgccctgctg acatagtacc 120

accatacatt gaagtggatc taagtgagtt ggatgtagga cagaaattgc tgatgcgtga 180

tctgaaagtt catcctgcgt tgaagctgct tcattcgcca gatcagccca tttgtaacgt 240

taccggatca aggtcttcag aatagaataa gggaaaataa cctgcttctt tgtatgagct 300

gttttgagca caataagggt atggtttctt acttgagtga attatgtgct tacttgttct 360

actgttagga tgaattgggt ccagagacac ctattttaac ttatggatgg gatcttttga 420

acctgtatat tcttct 436

<210> 28695

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F7

<400> 28695

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agccacagca acatctgcag gtatcagatt tgtatgacaa ggatttgcaa aggatgtcct 180

tgtcttttga gaatatctag acagcatgtt tcagcatgca tggaacagag aaatagcaga 240

aagccgagtc aatgaagcct aaataaatac aatatttctt cacagattca tttgaaggct 300

atgttgatgt gtgttttacg taagtacatt ct 332

<210> 28696

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F8

<400> 28696

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atcaatcgcc acgccggcgg ccggtcgatc gcaccacccc cgccgcctgt tgttagccgc 180  
aagatcgccg gctaccaaac gcggtgcatt gcattccccc ggtatattct cagatcagac 240  
ctgaattcgt cttcctctca agcgagaggg ggaaaaaaag acctgtaata tcatttggat 300  
cgccattata tttgtagctg attatatata aatatataaa atatcattcc tcgtattcct 360  
gtc 363

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<211> 249  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F9

<400> 28697

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cgttctgtta accgaaacaa gaactctgtg tattcctgta ccgagctgtg catgtttttt 180  
tctttccatc gtggagaatt taagttatta tccgtttgct gcaaaaaaaaa aaaataatat 240  
ttattttatt 249

<210> 28698  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G1

<400> 28698

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cctctacaac atccactcct tcaaacactc gggtttggcg aacaagaaga ctgtgacgat 180  
ccagccagct gcaaaggact cggctgtggt cctctctact accaagacca agaagcagaa 240  
cgcacctgcg aagctcagcc acaagtctgt gatgcgcaag gagttccgca agatggccaa 300  
ggctgtgaaa aaccaagtta gtgacaacta ctacaggcct gatctgacca agccagcttc 360  
tgctaggcta aactcggtgt accgcagtct tcaagttgcc aagtccggtg tcaaagagaa 420

gaacag 426

<210> 28699  
<211> 157  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-016-Q1-K1-G11  
  
<400> 28699

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cggcaatagg aggtcataat gggaagccaa agcagaaggt ctcatacatg gcggaacggg 120  
ttgttggtac tggttcgttt ggtatagttt tccaggc 157

<210> 28700  
<211> 168  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-016-Q1-K1-G12  
  
<400> 28700

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ttcttttctt cgactacgtc gactcatgca gctgcaggtg cagcggat 168

<210> 28701  
<211> 277  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-016-Q1-K1-G2  
  
<400> 28701

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gggctgtctt cgtccatcac agctggcgta ccatggcagg atatactggt tgcggtagaa 180  
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<210> 28702  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-G3  
  
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 acggcctcaa gtcctcgag gtcacctcg ccggcaaaac ctatgtgtct ggtgactcca 180  
 ttactaagga tgacattaag gtcttcgccg cggtgccgtc gaagcctggc gctgagtttc 240  
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 aggctgttgg tgtaaactcg cctgcgggat cagctcctgc ggcagctgct cctgcggatg 360  
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<210> 28703  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-G8  
  
 <400> 28703  
  
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 ttgcgctgga gggaggtttc gttctcgccg gccatggttt ggctgagaag aaacagcagc 240  
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<210> 28704  
 <211> 232  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-E9

<400> 28704

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tgtcgcgctg ggagttgcca tcatatccgt cccactcgac accaagttca gcctgatgtt 180

tggcgtttga gagcgatttg ctgcgatctt atgaggatct gcatttcccc gt 232

<210> 28705

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H10

<400> 28705

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ggatgtctga ttttgatcac aaagcattgc tag 93

<210> 28706

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-016-Q1-K1-H11

<400> 28706

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atgctaataca aagtcagct ggtgacttgg cacttgctac cttgatgat cagtccaact 180

cagttcagcc aattgtcaac gtcgaggaga agtttcatat tttgtgcaca aaagatagtg 240

gggtgctgta cgaggatcct tacatccaga ttggcttgaa agcngagtgg cgtgcccac 300

atgggogact tgttcttttc ttgggtacaa aaatacttca gcccttacgt cagtgcgggc 360

gctgatttgg cttctagtca tttgaaatgg aaccttctgc agtcctgata ctattcct 418

<210> 28707

<211> 181

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3067-016-Q1-K1-H2

<400> 28707

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tcgcccgtgc caccgtatgg ggaaatcaac gaatagggtg tctatggtct tgtgcctgat 180  
c 181

<210> 28708

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H3

<400> 28708

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ttatgttcag acaatgggtg accagagggt ggcttcaatt caacagcagc ttgcatcttt 180  
gaaacttaaa gatgcgccgg tcattggtgc ttttaatcct gtgaaggag agatagtcct 240  
cgcacaatth agcgthttaca aactcctgga acagagctat gattgttaat ggacctcgtt 300  
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<210> 28709

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B9

<400> 28709

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ataataataa taataataat aataataata ataataataa taataataat aataataata 120  
ataaactttg cagggaaacaa gacctggcc ggtagctgca tctgctgcat tagggacacg 180  
catgagatga tcaacgtggc ggcca 205

<210> 28710  
 <211> 143  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 28710  
  
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 gggcgcgcca agggcggcaa gggtttgggc aaggcgggcc ccaagcgcaa cctaagggtc 120  
 ttcgcgacaa cattcaaggc att 143

<210> 28711  
 <211> 283  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-C10  
  
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 cgcataaaag ttcttcaagc tcaggatgat ctagtaaaca aaatgaaaga cgatgcatg 180  
 aaggaactcc tccttgtcag ccacaaccac catgaatata agaacctttt gaaagatcta 240  
 attattcaag gcttgctccg ttgaaagag ccagctgtat tgc 283

<210> 28712  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-C11  
  
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 ccttgccaac ctctctgttg accccgagga cgcccaggag atcatagaca ggcaagct 58

<210> 28713  
 <211> 116  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-C12

<400> 28713

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ctgccgtggg atacataccc tgcgaatata actagaccat gcttgcttcc gtctaa 116

<210> 28714

<211> 122

<212> DNA

<213> Zea mays

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<400> 28714

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taaaggcatg aagtggcacc actgattgag caagcttttc aaatacattt tgaggaacag 120

aa 122

<210> 28715

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C4

<400> 28715

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tttggaaga gctacatagt ttgaagaaac tcatgatcgc tggcttacac ttgacgagct 120

aggttcacct gatgatacag gagataaagt gtgtgctggt gcatgggctt ctaacattgg 180

cagaccatat gatattatcg catttgcgac ctgcaaagga attgcaatct ggcatatatg 240

tttgaacgct gattc 255

<210> 28716

<211> 177

<212> DNA

<213> Zea mays

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<400> 28716

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agaaggcggtt gattttcggg tcgccaccta gtactagtaa gacatgcagc ttcaattgga 120  
 ggaccagcaa ctaccataca aactcaaata gcgctggatg catgaacttc tgtgcca 177

<210> 28717  
 <211> 195  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-016-Q1-K1-C8  
 <400> 28717

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 tgttgaaggc gcacttgac acccttactt ggcatcactt catgacataa gtgatgagcc 120  
 agtctgctca atgcccttca gcttcgactt cgagcagcat gcattatctg aagaacagtt 180  
 gaaggatctg atcta 195

<210> 28718  
 <211> 161  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-016-Q1-K1-C9  
 <400> 28718

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 gcgcgcctcg aggaccggtt accgatcact agcagcatgc acagtgtcat ggaatcctca 120  
 ttgacttacc gacagatcca tatacatcta gtactgggtg a 161

<210> 28719  
 <211> 130  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-016-Q1-K1-D10  
 <400> 28719

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 caacgggggg atcatgatgt atctatagca gcctatcaca caccaccatg caacaccgcc 120  
 accgcgccac 130

<210> 28720  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-D12  
  
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 gcaggcgacg catgcgcggg cacgacggct cgtggccccg actacgtatt cagctaaccg 180  
 gtctacgtct tcggcccttc tctgtcgcc cgattgagtc gctgctgcaa ctgctaactt 240  
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<210> 28721  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-D2  
  
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 gaggacgcta gctcgctgcc ggctcgccgcg cagatgatcg agaaggactt ggcgcc 116

<210> 28722  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-D5  
  
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 gcgcctaaaa gctttaacgg ataggacact aatttattgt acattgtaac tcaaattggt 120  
 ctaactcaaa tagtggattt tggacaacct attgtcacta gttatagata tatttacagg 180  
 atgtcaaaca tctttcacc c aatcacacta ttaaacctca aaaaaacacc caaagccctt 240  
 aaccatttcc cttgcctcgg tcttgaatgt atttgcctt aaaattacag caaacaatca 300

atcccaagtt ttcaaaatga caggatcatat taattatattt catgaccctg ctcttttate 360  
tagttgtatt ggcataatc gatgattcag atgcagaatt atctgaagtt gtgattgatg 420  
ttgtttcaca tg 432

<210> 28723  
<211> 59  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-016-Q1-K1-D7  
  
<400> 28723

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<210> 28724  
<211> 74  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-016-Q1-K1-B7  
  
<400> 28724

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tagatcgagc gccca 74

<210> 28725  
<211> 223  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-016-Q1-K1-D8  
  
<400> 28725

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ggcagcagca gcaggcgcgc tcgccgccag gctacccgac ggcggctgca ggcttgagac 180  
aagagcaggg aggcaggaag ggacgacgcc cggagaagac gac 223

<210> 28726  
<211> 451

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E1

<400> 28726

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 agctcacccc accccagagc atcaagaagc tggtaatcaa gaactacaaa ggcgtaaagt 180  
 ttccaaaatg gataaaaggt cccaagctag gagactcctt cccagcctt gtgttttttg 240  
 atcttgaaaa ctgcatgtca tgtactaaac tgccttcact tggcctcctg agtcaactcc 300  
 agtccctgca aatctcaaat gcagactcag tcatcaccat cggttcagaa ttccttgga 360  
 ccaactgtact ttcacagcc actccattcc ccaagcttga gggtttaaag ctcaaaaacc 420  
 tgaataaaac cttgaaagtg ggctttaact g 451

<210> 28727  
 <211> 168  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E11

<400> 28727

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 ggacgccgcc caggacgccg tgctgcacgc tgattcaggg gctggcgg 168

<210> 28728  
 <211> 239  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E12

<400> 28728

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 tcgaatagac tgcaactcgg aatagagaaa ccttgctatt ggtagccata ttgcatgaca 180

ccaaagtata atacactatc gtgttgtagt aattgctaga atggtatggt gggctagtc 239

<210> 28729

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E2

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ctgcgtccgt gtgaagcagt tgttcgagaa gctcggagca tgctacaagg ccattgagtt 180

ggataaggaa agtgatggag ctgagctcca gaatgccctg aaggagtgga ctggacagaa 240

gactgtccca aatgtcttca tcaatgggaa gcctattggc tgctgtgatg atactatggc 300

actgaaccat tgttgggaaa gctggttcct cttgctgact gatgc 345

<210> 28730

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E3

<400> 28730

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gatgctgtca ataaggcat caagggtac cagaaattca gtgcaacacc caagtatatg 180

gtgtacaact agagagtgtc ttcattggaat atgttgattt tagaactccg ggatcttttc 240

ggtgattgtg tcatcgtgag gttctatgca aggattgttg tttgttttga aatctggatc 300

cccatggatt gcattctgta ccacatgttt ttaagacaag gtttttcccc tt 352

<210> 28731

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E4



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taataagagg cagcagatca agcaaggatc aaatccccac tgtgcaacta ctactgctga 180  
agcacatgga tcaaaatgga ccaagtattt ggacacgagc cgttttggtg ggaggaaatg 240  
cttcgatacc tctggtctgc actggactga acatgatgaa tctgccacta ctgaggctac 300  
tactgacata atggtggatg atgaggttca ccctgatttc atctgatctc atgttggtt 359

<210> 28732

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E5

<400> 28732

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gttgcgtaa acgatcgaca aatcgatcgg tagaatgaat taatgggcca gccagcagag 180  
tgtgatctca ctatctgatg agtgatagga tgtactccct ctgtccggag atccagtatt 240  
aaattaaatc caccagtgga aacaataaat acatcaacga gctagcatag acgatccaca 300  
ctacacaagc gaagcgaatc tgctgctgat atcgtcggcg acgtgcatct tatctagcag 360  
tgttggcctt tcccggaact c 381

<210> 28733

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-E6

<400> 28733

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gggtcctaga aaaaatctaa aata 84

<210> 28734  
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 <213> Zea mays  
  
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 cgctgacctt gtctacttct ggcagaagta ccggaattg gcagacagct tacatgagaa 180  
 aaatgaagct cggagggagt tgcttgaagt gatggccac aggtctcatg ttgacagcag 240  
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 ggcagcgagg ggcgagggg gctaatactg taggcggagg aggaaccgag ccgatggggc 180  
 agcagtcgct gatctacgcg ttcgtggcgc ggggcaccgt ggtgctggcc gagtacaccg 240  
 agttcaccgg caactttacc accattcgcg tccagtgcct gc 282

<210> 28736  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
  
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 aaagagggct ccgccgctcc cggggaagag cgcgccattg ccgccgccgc gctgactggg 180

gaagatgggtt gtccaggagt tcacagttga tctcaacaag cccctgtttt tccagggttg 240  
cca 243

<210> 28737  
<211> 355  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-014-Q1-K1-H4  
  
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cccacaggtt cgcgatctgc gccggccgcg ctcacctatc tacttgctgc gttgttccgt 180  
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<210> 28738  
<211> 397  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-014-Q1-K1-H5  
  
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tatcttttat ttgctcttgt ttggaattgg tggaggcttt tgaactgtaa tctggtgcca 180  
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<210> 28739  
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<212> DNA  
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<210> 28740  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-014-Q1-K1-H7  
  
 <400> 28740  
  
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 atccggatgt tcacgtcatc ttctcatcg taaactcctg tggttcgcct gggacggagt 180  
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<210> 28741  
 <211> 192  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-014-Q1-K1-H8  
  
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 ctgatacctc agcgtcttga gtgctgataa cgtgattagg ccgtttgctg agaagcacta 180  
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<210> 28742  
 <211> 401  
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 <213> Zea mays  
  
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ttcttgtctc cattcaagct ctgattttga atgacaagcc atattacaac gagccaggat 240  
atgagtccta tgccaacact ccgaatggag agcggttggc tttggactat aatgacaaca 300  
cctttctgca ctcatgcaag actatgttat actcacttcg gaagccttca tagcaccttg 360  
cagatcttgt tgctggccac tttcgggtgc atgggcacac g 401

<210> 28743  
<211> 97  
<212> DNA  
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<210> 28744  
<211> 275  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-016-Q1-K1-A3  
<400> 28744

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acttctaattg cccctcaaca tgggtactttt cacattatgc aacgcatgcg actgaaagtt 180  
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aacaatctca aagccggtta ctagagagaa ttttt 275

<210> 28745  
<211> 435  
<212> DNA  
<213> Zea mays

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<400> 28745

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ccttagcatt tcatgcaaag atgttgctgg agagaattgc ttcgatgaaa atagtgtctac 180  
tgtcctctgg gctgggtgttc ttagcgatat acacctggaa gttccaccgt tgcaagaggt 240  
ggtagatcct ttctccatgt atttccttgt accgggtgac tactcgctcc aagctgcttc 300  
tggtataatc gatgccacag acgttcttcg tgctcgtgca aagggtgaa tcaccagatg 360  
aacctatact gggttccgga ttcccatctc atatccgggt agtcggttca gcattagcag 420  
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<210> 28746

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A6

<400> 28746

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tggaactcc agcccctctg ccgaggactt gacagccatt ctggagtcag ttggctgtta 180  
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<210> 28747

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-A7

<400> 28747

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cttcttcgcc ttcgccgacg catgcggctg caggtgcggc ggatcctgcc ctagtccagg 180

cggcgggtggc ggtggcggtg gaggatctgg tgggtggtgg ggtggaagct gtgggggtgg 240  
gag 243

<210> 28748  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-016-Q1-K1-A8  
  
<400> 28748

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gaaccgcccc atcccctact ggatccgcat gcgcacggac aacaccatca ggtacaacgc 180  
caagcgcagg cactggcgcc gcaccaagct cggcttctga gcgcgcggat cggccggctc 240  
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ctgtaagcta gcaaacagtt tcagaaa 327

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<211> 136  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-016-Q1-K1-A9  
  
<400> 28749

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tacggcggag ggactagtgg aggaggcacc ctattgcggg gaaccagctt cgccacgcca 120  
cacccgggct cggcat 136

<210> 28750  
<211> 376  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-016-Q1-K1-B1  
  
<400> 28750

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gatgttttac tgcgatcagg gcttggttcc atggcgcaaa aagtggccac tcgaggctgc 120  
 tttgaccttc tcttgtgagc cttcgccgac tcatgcggct gcaggtgcgg cggatcctgc 180  
 gctatcccag ctgcggccta cactatctac tagagctgaa gcaatcctta agtgtatcaa 240  
 cgggtcatct gttacatatt tgagtctttg ctattgatgg tttatctgcc aagttatttt 300  
 tatttggttt ttttgtggtt actaggattt cttttttaaa tgtattttat tttgatttct 360  
 ttaatatattt ttttcc 376

<210> 28751  
 <211> 230  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-016-Q1-K1-B10  
 <400> 28751

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 ggagtgaat ggcttcaaat gtaaccttcc agtcaaggta tgtgctaata tagaaactta 180  
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<210> 28752  
 <211> 159  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-016-Q1-K1-B11  
 <400> 28752

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 gggggaaaaa aaaagaaaat gagagtgaat aaaaaaacca acaagaaagc taaaaaccga 120  
 tatgaaaaga gagcgaagat gatacaaaaa aagggggggg 159

<210> 28753  
 <211> 228  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-016-Q1-K1-B12



<400> 28753

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tggcagtggc aggctccatg ttcccagggc tagcgacctg gttctcaatg tagtgacatt 180  
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<210> 28754

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B2

<400> 28754

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agcagcaagg ggagcgggga gcggaacaaa aaggcaaccc acggaaccga gagacgcacg 120  
agcagcacia caaaaaagca gagagacaga caacacgcag aaacaacagg caaacagaaa 180  
caacgagagc g 191

<210> 28755

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-B3

<400> 28755

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tgagcaacta aaggcggtta ttgatattgg tgatatatta ggtgcaagtg gatccattaa 120  
aaagacagag aaaggggagc tatctgttta tgtgaaaaat ttcgaaattc tcacaaaatc 180  
attactccca ctaccagata agtatcatgg attactgat gtggacaaac gttatcgta 240  
aaggatatgtt gacatgattg caaacccata ggtagctgat gtattccgaa ctagggcaaa 300  
agtggtttct gaaattcgca agacaatggg aatcatttgg gtttattgaa atcgaaactt 360  
cagttctaca gggagcaaca agtttgt 387

<210> 28756  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-B4  
  
 <400> 28756  
  
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 gctcatgctg gtgcgcaagg agatcgtcga cttccacggc gagatgggtgc tgctcgagaa 180  
 ctacagcgcc cttaactaca caggattggg taagattctc aagaaatatg acaagagAAC 240  
 tggagccctg atccggctgc ctttcattca aaaagtctct tagtagcctt tctttaccac 300  
 tgatcttctg tattagcttg 320

<210> 28757  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-014-Q1-K1-H11  
  
 <400> 28757  
  
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 cctgaggagg aagaggagat ccgcagggag aaccagtggg ccttcgagta aggaggtgct 120  
 ggatctattg atgcctaagt ttcgtgggtg ctactactat gtctacttta tgttgtccta 180  
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 ggtcaatggg cggttattaa cttattacca tgaaagcact ttttctgctg ccctaatagg 300  
 tttagtctca tttgcatttt tactaattta atttttgttg attttttttg tgattccatt 360  
 gttaaattct atggtttaat ttttttat 388

<210> 28758  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-B5  
  
 <400> 28758

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 aatggacttg aaatcgctac tataaaccga gcgatgggta ttgggtcccct gctgcagcct 180  
 acactaaata ccagtgtga agcaatcctg aagttaatca atgggtcatc gtctacatat 240  
 cccaattttt gctttggatg gggttaatgtc aaaggatttt gcccttgccc atatccttgc 300  
 atacgagggt cccatcatca atggaaggta ctgcattgtg gaaagagttt gtcactactt 360  
 ataactgggt aacatttttc tcaacatgta tctaccttt tcttttttga ctagtgtgta 420  
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<210> 28759  
 <211> 343  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-F2  
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 agaaaaagca agacaaaatc gttgtctctg ccaaaaggaa tgatccgtga aaatggggaa 180  
 ttgttcatga tagtccgttc tctgcttctt ttttttttcc tcttctctc tcagttgttt 240  
 attataatcc ttctattagt atataagtcg atctcttcta gtactgctag gaataggatt 300  
 agtgtcctgc tttattttcc cttggtttct tctggaaagc ata 343

<210> 28760  
 <211> 412  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-F3  
 <400> 28760

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 ccgtcgccgc cgctctgat ctccgcgagg ttgtcaggat tcaatatgtc gaccagcaca 180

ttcgctactt cctgcacgct gttgggcaat gttagaacaa cgcaggcctt ccagacagcg 240  
 gtgaagagcc cttcgtctct aagcttcttt agccaagtta cgaaggttcc aagcctgaag 300  
 acctccaaga aactggatgt cttcgccatg gctgtatata aggtgaagct tgtctggcct 360  
 gaatgtgaag agcacgagtt tgatgctcca gatgactcct acattcttga cg 412

<210> 28761  
 <211> 231  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-F5  
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 gccccgtggt aattaattat gtacttactt atatataat atacattact ccgaagagga 180  
 tggagcactt tgtataatag aggaatgggtg atcgacttta cgggtgtggg c 231

<210> 28762  
 <211> 297  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-F6  
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 cgaattcctt cctatcgaat tcctatagta aaattcctat aggatagaac gtacacaggg 120  
 tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttttttatt 180  
 taatgagttg atattaatta aatatctgtt tttttagatt tttgcaaagg tttcatttac 240  
 gcctaattca tatcgagttg accctgacgt tgtgagaaaa ctgtaattca tgagttg 297

<210> 28763  
 <211> 341  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-F7

<400> 28763

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gaatacagac gcacccatcg tggatagagc ctgtcttgca caagtttctt tgtccccggt 120  
gccagtctat aaaacaataa gagaaactaa gtgttaagtc atggtgtgtg tgctgtggaa 180  
aagaacaacc cacatacact taaggtaa atatatattgt ttagaagtac atttgtaatt 240  
gtatcagaac caaacaacta tgcagttctg tttgaatgga ttccaggaca aaaaggaaaa 300  
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<210> 28764

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F8

<400> 28764

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gccgagttcg tcgccacctt cctcttcctc tacatcacca tcctcaccgt catgggcgctc 120  
tccaagtcca cctccaagtg cgctaccgctc ggtatccagg gcatcgctg gtccttcgga 180  
ggaatgatct tcgcgctcgt ctactgcacc gccggcatct ccggaggaca catcaaccca 240  
gctgtgactt tcgggctggt cttagccagg aagctgtccc tgactagggc cctcttctac 300  
attatcatgc aatgcctgtg tgccatctgt ggagctggag tggatgaaggg ctttcagcat 360  
ggactttaca tgggcaactg tttgttgccc aatgttgctg cacctggct 409

<210> 28765

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F9

<400> 28765

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gtaaaggagg aacacggatg agtt 84

<210> 28766  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-014-Q1-K1-G1  
  
 <400> 28766  
  
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 acctgaccaa ttcaaggcga tttacgatga ggggatgcca atttaccaga ggcctttcat 240  
 gaaggggaag ctgtacattc atttcacggg ggagttcccc gactcgctgg caccagagca 300  
 gtgcaaggct ttcgagacag tactttcacc aaggccttta ttcaagctga cagacatgga 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-014-Q1-K1-G10  
  
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 atacgagaag acactcatgg tatctagctc ccagatcgaa atgtagccga cgcacaaggt 180  
 tgatggtgta acaatggtta tagataatgt gcttgagcag gctctgtatt gagcttacca 240  
 acatgtcctt atacatggac gaaagggtatt cagcgatgtc tccacattag acgaggattt 300  
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<210> 28768  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-014-Q1-K1-G11  
  
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cataatcaac attgtataaa ttctcacaga cgaaacgaga accacacacg tgaaattttc 180  
cgatgggagt tgtgggttct tgtatcgagg ggcaggtcca ggatttaaag gatgggcatt 240  
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<210> 28769

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G2

<400> 28769

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cggccgccct tggcacacgg gtgtgattgg tggaatgggc cagaaagacg cctatgtttg 300  
tgacgaggca cagtcaaaaa gaggtatctt gacctttaag ttctccattg agcacgggtt 360  
cgtgaacaac 370

<210> 28770

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G3

<400> 28770

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<210> 28771

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G4

<400> 28771

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tcgagaagga cgccgttctt tgaataccat gcctttcgta tacactttgg actctggtgg 180  
catggttttt ttttatactc ggtggttttg tctggatagc cacttgtatt ggtccttaaa 240  
atttggtttg cctaaatgct tttatcatgt gggtttattt aactggcctg ttaatggtta 300  
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<210> 28772

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G5

<400> 28772

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caaggccagt ccagatccgg cggctgcggc tctggctgcg gtggaggctg cggcagtggc 180  
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tgcggtggcc gaagtggctg ctgccgctga tgctgttgca gtggttgcag caccttgtcc 300  
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<210> 28773

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-G6

<400> 28773

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atgcaagcaa ggatatctac gagaaacacg taatctcata tactgtactc tgtgtaatct 180



acggcttgac cttggagaag ataagatgac tctggagttc ttactagaac gggtggccaa 240  
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<210> 28774  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-G7  
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 gtaatttatt tgttatccgt gttgagccgt tgattccttt cttttgttct tcttcttttc 180  
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<210> 28775  
 <211> 339  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-G8  
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<210> 28776  
 <211> 192  
 <212> DNA  
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 <223> Clone ID: LIB3067-014-Q1-K1-F11  
 <400> 28776

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cggatttgca acggttatga cacagtttga gccactgtgt ctggtactgt taactcgaaa 180  
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<210> 28777  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-014-Q1-K1-G9  
<400> 28777

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acgaattcta ataaaaaagt tgtcaactac aaagattaat aacttttgaa gttctacaac 180  
ttttattttg acactttttt catcatccga tgtaatttgc aaatatttga attttaaatt 240  
tgacatactt attttca 257

<210> 28778  
<211> 281  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-014-Q1-K1-H1  
<400> 28778

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cccgagcggg agcagccgga ggagggcttg atgatcatct tgctccgtct gatgcgttga 180  
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<210> 28779  
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<212> DNA  
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<223> Clone ID: LIB3067-014-Q1-K1-H10

<400> 28779

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cgcttgcccg tcgtgaacca agccgggttt tgtaaatggt ggttcgagtt taaacccatg 180  
gtgtggtcgg atcggtgtat gagactagtc gagaaatatg aagggggaaa aaacttgtag 240  
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<210> 28780

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D10

<400> 28780

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gaggcctacc tcgtctgcct gttcgaggac accaatcctt tgtccatcca ctccatagcgc 180  
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tgcttttttg cgccctgcct ctttttgctc ttgaggattg tggttgtctt tttttattct 300  
ttatcttggt gtttctttta gtcttttggt aattatctat tttttttccg gttttatatt 360  
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<210> 28781

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D11

<400> 28781

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caaaactggt ggggttcctg gcatctttgg tcgtagcagt cagttgattt aatgaactcc 180

gaaaaatgtc tcatggagga aaatTTTTtg tgcctgtgt agcgct

226

<210> 28782

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D2

<400> 28782

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aatttaatta ta 132

<210> 28783

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D3

<400> 28783

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tgtctctcta gctattgtgg tattttaccat tgtgccttgt gatgctctgc tttatgtcca 180  
tcgtcatggt cgtttggtta tgttttatta tctttttatt tttctttgtt ttttcttttt 240  
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ttttctttat tatatttatt ttttaatttc ttattttatt ctttttatta ttttttttta 420  
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<210> 28784

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D4

<400> 28784

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gctcgatttc aagaacgcct tcctgcacgg cgccctcacc gagaccgtct actgctgtca 120  
gccggtgggg ttctgtggact cctctcgccc tgacatggtc tgccgactca acaggtccct 180  
ctacggcctc aagcaggccc tttgggcgtg gcactcctga cttgctacgt tcctgggtgac 240  
cctgggcttc gtggaggcct agtcagacat gtctttgttc tgttccatt atggaacaga 300  
gactgtctac ttgctttctt acgtggatga cattgtcctt actgtcttca tgtatgtctt 360  
tttttttcgt cttggt 376

<210> 28785  
<211> 246  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-014-Q1-K1-D5  
<400> 28785

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attgcaggcg tagtacgtac ccagcagcag ctagcactag cagtccatcg gagcgacgat 120  
ggtgagaagg acgggtgctgg cggcgctgct ggtggccgcc gccctcgccg gcggcgcgcg 180  
ggcgacgctc aaggaggggt tctacgacta ctctgctca caggcggaga agatcgtcta 240  
ggacta 246

<210> 28786  
<211> 176  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-014-Q1-K1-D7  
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gagaattttc tggagtcttc gactcgagca gggttccgat ggcgctgcaa tggatgatcc 120  
tggcgtgcgt ggtggcgggtg gaagctgctg tggtcgctgt ggtcacgctt ccggtg 176

<210> 28787  
<211> 251

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D8

<400> 28787

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 agcaattgta cgacattgcc tgctgactat taatatttat tttattttat tattatattt 180  
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 tttttatatt t 251

<210> 28788  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D9

<400> 28788

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 atgatacaat agatgaggta ggcgaggac atgatccatt catggatttg aaagcgagat 180  
 tcatggactt taaacagaga aactatgtgg aaaaattttc aaattaccaa accctggctg 240  
 agcagcaaac accaaagtgc atggtggtt 269

<210> 28789  
 <211> 358  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E10

<400> 28789

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 ggaagtaagg tatcaaggcc tatgattagt gaaagaacag cttttatcct atcaagtttc 180  
 tgtccataag tttcttgtgt ttgatttacc tttcatctat ctgttattct atggtatgtt 240

taaatcta atgttttatt ttttcacttt tatatatattt ttttttttta gttttttttt 300  
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<210> 28790  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-E3  
 <400> 28790

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 cgtgcaaattg gcaccattg ctttcgatca ttaattcagc ttttatgctt gcttctggtt 180  
 tattgtgttt ttttgagttt ttgtgcgatt gtgcttttct tgtgtgttta ttatagactg 240  
 ttcttagttt attttcgtga atttttaatt actttttggc tcttgtgatt ctaatatatt 300  
 ttttcttttt cttttttttt tcttt 325

<210> 28791  
 <211> 318  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-E4  
 <400> 28791

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 gtgagtaaag cctgcggtaa cggatatagta ccccgcgga attgaaggag gaaaccaaac 120  
 cgtgcatcgc atattagaaa ggcaatgcatt gtcttggttc cttcgttttc cccatgaaga 180  
 aaccgtacta gctgtagctg ctgaatcgtt gagtccccct gctgccactc ttatcttcat 240  
 ttgtgtcatt gaaactcgtt gctttctctg ctgtgtgaaa tctgacggct ttgctgtgtt 300  
 tggacactga ttgcagtt 318

<210> 28792  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E5

<400> 28792

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tatgatgtac tgagaacttt gaagattatt ctgagcaccg gctcaaattt ttttctctgc 120  
tccgagcaat tgtcacccat tgctttcaag cattaattca gctttcaagc cagcaattga 180  
agcttgtgat cgattcgatg aattgggctg ttagacatac cgtgagaaat atctctgaga 240  
ctggccttag tctatagttg gaaattttga agaactttgt tgcttttagga attcataatt 300  
cattattact atattctctt ttgacattt tatctagata tttttgctgt ttttgatcag 360  
ctcattttta taaattttgt gttttagtt 389

<210> 28793

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-014-Q1-K1-E6

<400> 28793

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ttaaatgatt gctattgtac ttaaagttat actgataagt cgtacgctct gtacttgaat 180  
gagatctttt ggttgcatc attatgtatg ttcaaagtaa tagatggact ccatcttggg 240  
tattttagtg ttcgctagca gccttaatac ctaatcaaat taggttcata ttcgcttttt 300  
agtttatcat gctcattcaa aattagctac caccttttgg aatgctatta ttcttttaac 360  
taattgatat gatttctggt ttttgtgtgt tactgtatgt tttttgctat agttttatcc 420  
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<210> 28794

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E8



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gctctaaggc atggacggca aggacctgga ccgtctcatc atgatggctc acaaggctca 120  
atcgcgcta tgacttttta g 141

<210> 28795  
<211> 287  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-014-Q1-K1-E9

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ctggatccag atattcctgt aagggtgtgat tagtttgatt gggtgtaagg gctttttctt 180  
gtttaacatg ctgcataat ttctttctat tatttatggg tattatcttt ttattacct 240  
taaggagatt ttttctcaaa tttttatggt ttaggcatta ttttttt 287

<210> 28796  
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<213> Zea mays  
<223> Clone ID: LIB3067-014-Q1-K1-F1

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gatgtctgca ctgcactcta caatgctagt ctatctactt accaaattat tgtgaaatag 180  
tagtatatat ggtcgtgatg gttgtatctc tttttggatt ggatgtatgt caagctgggtg 240  
gggtgctagtt cgtctgtctg gacttggttac tagttaatat ctcataatac atatataaaa 300  
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<210> 28797  
<211> 406  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-D1

<400> 28797

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tatttgctga aacatggtat ggttaaggac ggtaaggagg ttgcacttgt tcaaagtggc 180  
aaacattcca tctggagatc acaatcaaca cacaacattc aggtgaggaa gatctgatgc 240  
ggaacgcaca tagtattctg attggtggag gacatcgttt cttctagcaa accgcaaggt 300  
cttgttacaa tgaaacttca ctggtagtaa gtactgggat tggtgagata gttggtgctg 360  
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<210> 28798

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-F10

<400> 28798

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acaatttgcg tgtgaataaa tgtgtgccag ttcctctgtt gaaagagaaa attgctactg 120  
taactggaat attgtctgaa cagcaacgct tgatttgctg tgggagagtc ttgaaggatg 180  
atgaactctt gtctgcttat catgtcgaag atgggcatac attacatctt gttgttagac 240  
atccaggcca gtcagctaca tttggaaatg cagcaaccga agcttacaca tctaattctg 300  
gccgtcgtca tgggccca gtggcaagaa gtgtatt 337

<210> 28799

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A7

<400> 28799

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aaccgtccta gtcccaaaca cactgaagag aaacaacgca tatttgccga atctgtcttg 120  
atgagactgg aggagaaatg aagggacgtc aagccgtaca agtgcacttc gttaggggtt 180  
tacatgcagc taccttgtaa ttcggttggc ttccagaaaa aaaaatgtga gcctggacac 240  
gtcaagtgac cacctcagtt ttgttgtaaa tttgttacta gtttgatagg attattagta 300  
tgtacttattc atgaaaagaa ttctcagtat gtgttttggc tgcccattca atgataggtc 360  
agtgattaac accataataa ttattatttt gttgttttta ttcttatttt attttttttt 420  
tatt 424

<210> 28800  
<211> 226  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A8

<400> 28800

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gtttcagttg atattcgata caagtttctt cctcttgaga acttatttga gtctgtgcct 180  
tgtagttggc tatggattct tgccttactt aatcactgtg gattat 226

<210> 28801  
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<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-A9

<400> 28801

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taaagtcaaa gagatacaca agacgaggct gactccagag ctaagatgaa cgagcatgca 120  
aatacacctg aataattctc agcaaaaatt gtatctgcat atacacggcc ag 172

<210> 28802  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B1

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aactgcgcga agaaagtggc cgatgcggct gtgaaagccg gcaggaccat catcgactgg 180  
gacagcatgg ccaagttgct cgttaccgac taggctcgca aggagtctgc cgtccttcga 240  
cgcgctttct atgacgtcaa ccaccatctt cagaccaagt tctttcatga accccagccg 300  
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<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B10

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gacaggactc aaagccagcg ctaaccttgg aagcattaac aagttggctg aaagataagc 180  
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<210> 28804

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B11

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gaaaagatta cacaagata gaataggtgc tccatatttt agggagcctg gcgaattccc 180

aaagctagaa gagtctttct ttgcaaattcc ctgctctggc tgtatatgtg agcaacatag 240  
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<210> 28805  
<211> 303  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-014-Q1-K1-B2  
<400> 28805

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tcagtagtcg ccgttacaag tttctttccc ttgagaactt agttgagtcg gggccttgga 180  
gttggaatg gagtcttgcc ttcttaatc actgcggata atggtcaaga acattaattt 240  
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<210> 28806  
<211> 211  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-014-Q1-K1-B3  
<400> 28806

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ctggtcgagg ctgcggctct ggcagcggcg ctgctgctgc tggctgctgg ggccgggacg 180  
gcttctgctg ctgtgagctg ctgcgaggtg a 211

<210> 28807  
<211> 114  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B4

<400> 28807

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aaggggttgt ctggaatgga tgttgtgtac aaggtggatg ctgatggcct ttat 114

<210> 28808

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B6

<400> 28808

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aagatgggtc gcaggggaaga tgatcacagc aacttttatg accccacaac agtatgaaat 180

caagttcccg agctagtga cagatgcatg attaatatgg acgtagtgtc ttgggctcgg 240

tgggtgctgg catttctata ttttagcggt ttgagcttgt gtcaacttat tactggaggt 300

tattataaaa aaaaactagt ggaggaaaat ttagtggaag ctagtgtatc gggtaatggc 360

ttacgataaa tgggtgtaagg aatgagtttc tagtcctgtg ggtagtgct tgaattgaaa 420

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<210> 28809

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-B9

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tgtgaagggt agccattccg ttctgtttg tgaaaagggt aaaaagcta gctttcactt 180

cacacatgag agaagaagct aaggagaaga ggtacaggct gctgtgggtg ggttcgatgg 240

taggtgagac atcacaatgc tatgttagat atggggctta ttccatct 288

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-014-Q1-K1-C10  
  
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 actcattggt agctggtagt ctaggccagc caaatggttg ttctacttcc ttggatcctg 240  
 catctgcatt tagcctcctt tt 262

<210> 28811  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-014-Q1-K1-C11  
  
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 gcgggctccc gcggccgtcc tgcgacgct accgaggacg acgacagaga ggagggcgag 180  
 atcgtcgctt acgccccctc gcctgccctt ctgctcgtgc acccgctcga gcactcgtgg 240  
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<210> 28812  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-014-Q1-K1-C12  
  
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gcgctacgac accctgcgcc tgccgcacaa ggtcgtcgcg cgggaggccg acggctccgt 180

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caggatctcc gtgcagggca tcgacgccgt gctcttcgcg cgggacgacg ccaaggccac 300

gcagaccgcc gacccaaca ggaagcctcc cgccatcgtc acccacaaga agaagatcaa 360

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ccagatgctg agccagcggg tgattttgccg cttggacggg ccaagtctcg tgccatagact 240

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<211> 317

<212> DNA

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 ggaggtcac ttggattctg gatttcatat cgttaaagaa accgagggtcc agcttgatgc 300  
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 tgtatctcca gtactacatc aacgagaagg gggacaaggt ctacaccacc aagaaggagt 180  
 cacctcttgg ggtgccaacg cagtctgctc acccagctcg gttctcacca gatgacaagt 240  
 actctcgcca gcgatacctg ttgaagaaga gatttggact tctgccaacg cagaatccag 300  
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<210> 28844

<211> 429  
 <212> DNA  
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 <223> Clone ID: LIB3067-013-Q1-K1-G10  
  
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 aggcagcaag ggagcacagc tccgtaagca catagatgcc actctcggca gtggaaacct 180  
 tagggaagct gtgaggttgc ctcttgaga ggatatcaat gaatggcttg ctgtgaatac 240  
 cgtggatttc ttaaccaag ttaatatgct gtatggcacg ctcacagaat tctgcacacc 300  
 tgagagctgc ccaacaatga cagctggccc aaagtatgaa tacagatggg ctgatgggtg 360  
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 gattgaaag 429

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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-G11  
  
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 cccgccgagc aggcgcacgg agccaacgcc ggactggaaa ttgccatcag gctgctagag 180  
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 cctgagcctc caccggaagg ccgccttctc gatgccaccc aaggttctga tcaccttagg 360  
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 cacaccctgt gaagatgc 438

<210> 28846  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G12

<400> 28846

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cggagaagtg atctgagtgt tcgtcgagct gtagtcaggt gattcgattc cacgcacgtt 180

ccattttaca cggatgaatct tcagtcgagc ttgtagtttc ttgggtttgt gattgtaaag 240

atgggtgggtg tgcttgtgcc cgtacgtact gtagatgcag caacgtgtac ctacacaatt 300

tacatttaca gagaaaatgc atgctggag 329

<210> 28847

<211> 324

<212> DNA

<213> Zea mays

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<400> 28847

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gacccatcat tggagacaga tcctgatttt gactcggata ttcgagatga tgtccaagat 180

gagtgttcca agtttgggtgc agtgaagcat atttttgttg acaaaaatac tgcacgcttt 240

gtgtatctgc agttcgatag cgtgactgca gcatcaaatg cccaaaatgc cctttacgga 300

agatggttcg ctgggaagat tatt 324

<210> 28848

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G3

<400> 28848

cactttacgt aaacgaaata gcatgttaaa catcagacca actgaactgt ttttgatttt 60

ccgtatcaaa agtatcgagg tacaaaaagg aactagtcta cttttgtgca gcaccatctg 120

ttagcttccg agagataagc tgcgcatttt cgatctatct atagggcat 168

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-013-Q1-K1-G5  
 <400> 28849

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 caaaagcctg ctgtctactg gttgggatgt ctttagaatc cgctccttta gttattgaaa 180  
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 tgga 244

<210> 28850  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 ttgattgata tccaaggac tcaggtgcc ccacctatgg caatgggtcca gccacagttg 180  
 cttactgcag cacctgccac atacaatgac cctgggtgcca tgcttgctgg attgctatga 240  
 gaagtaaaaa aacaaaagcc atagtgtttt gatgtacatg acagatgttg atctaacatc 300  
 tccaaaagca tcttgctgcc aagacgaaca cgtggagcaa cgaaagggct ggcggagtag 360  
 tcttcagctg gattctaaac cgagaaaaag ctagattcnt ttgggcgggt tgaaggcctt 420  
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<210> 28851  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G8

<400> 28851

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ttaattgata ttccaaggac tcaagttgtg tcacctatgg taatgggtcca gacatatatg 180  
attactgtct ttaccttgta tcatacaatt accttgtttt atattctttc tcttatctgt 240  
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<210> 28852

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G9

<400> 28852

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aggaatcaac tttggtggac tatattgttt tctgcaccaa agaccatgtt caggctgaaa 180  
agatgctaga tcttctacag tcgattttcg atgttgtggc cgatatgttt gttcttcata 240  
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<210> 28853

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E9

<400> 28853

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ctccctcgtc cggggcccca gacttcgggc agtcgccgac gccgtcgccg tcaaccctt 180  
cgggatcacc ggcagcaacc cggagccaga ccagcggcgc tccagcgccc tccctagcgc 240  
gttccgtcgc tgccggcctc tcggcaccac cactggcctt cacctttctc gctgtcgtga 300



ctcttttggg tgtccggatc ttgtgagctg tgctcattta ttctatttca tgcgcttcgt 360  
 ccgtaccatc ttacccttag tctgtcctct tatcattgtc tttgttttgt ttcttgtgag 420  
 ctttttcggt tcgttttttt acctctgttt tt 452

<210> 28854  
 <211> 357  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D10

<400> 28854

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 ggagtcgctg cagtggcctt cacgaacaag agcctagtct ctcggcacgc atcgctacgg 180  
 gtctgctcgt cgaggctctc gatccgtatc ctggtcgtta aggctgcaac tgcgctcatc 240  
 tcaaagtaca cttcactgaa gcctctggga gatagggtgc tagtgaagct tggtgccgca 300  
 ttggagaatg acagttggtg gctttttgct ttctttctact gtccagacta aacctta 357

<210> 28855  
 <211> 348  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D11

<400> 28855

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 cccgtgcttg attctccggt ggccagccct gttgcggcca acagcaactt tgtgggggttc 180  
 agttatgtga ggccgcacc gttccttcag aagccgagtc ctcttggtta aagaactact 240  
 tccgtgatct gatatctacc ccatagttca aataactatc tttgagtcgg aatcctatgt 300  
 atttcttcaa gacattagtg atgggaatct aaccttattg ttgtgttg 348

<210> 28856  
 <211> 151

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-D12  
  
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 gaccttgcat gattctctca tgtcgaccta t 151

<210> 28857  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-D2  
  
 <400> 28857  
  
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 tgtaatgggc caggcccaag tactctaata tatcaataca acttcaacct tggtagggg 300  
 taggttttgt cacaatccaa catttagttg ttatatattg ctttttggct aattctaata 360  
 attttcttga tgatttca 378

<210> 28858  
 <211> 397  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-D4  
  
 <400> 28858  
  
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 tctgctttgc aagaatttgg tggagccaag ggctgtttg atggttacat ggcaaggagg 180  
 cagaagatag aagcttcaat ggggtacaag gtgcctgaca acgatggaag gaggcattgct 240

ttaaccttga gtgtgagtga ttacaaaagg cggcggagtc tcctctgaat ggtatctctg 300  
 attgtgctgg acgcctaacg gattcaacta tattcctgtc gtctgcacct atgtgcattt 360  
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<210> 28859

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D5

<400> 28859

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<210> 28860

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D6

<400> 28860

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 gcgcccttcg tcgcctctac cggcttccac gtcacggctg caggcctccc ggggcgcgct 180  
 ttgcgcaccc agggcgcgcg ctgtgggacc agccggagtt caggacctc gacgccgtca 240  
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<210> 28861

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D7

<400> 28861

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gggcctgtgg aacgccgact actgggctac ttgtggctgt cgcgagaaga cggactgggt 120  
taactcgcct tttgttgtct atctacttcg gttttcactt tgactgttt 169

<210> 28862  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-D8

<400> 28862

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cagctactgg gccacgcgca agggcgaggt caagatcgac tgggccagcg cgccttcgt 180  
cgtctcctac cgagactaca ccgtcaacgc ctgcgccgtc gacggccgga acgggggagg 240  
cagctcgtcg tgccccgcg gtgccaaaga gtggatggac aggcagtcg acgacaccga 300  
ccgtcttatt gtggcttgtg cgcgcctgaa ctgcttgacg tacaac 346

<210> 28863  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E1

<400> 28863

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gatattgttg ttgtcgggtg tggaggcaga ccattgacta ctctcttcaa ggggtcaagtt 180  
gctgaggaga aggggtggaat caagactgac gcttcctttg aaacaagcgt tcctggagta 240  
tatgccattg gtgatgtggc taccttcctt ttgaagatgt acaatgagtt gaggagagtg 300  
gaacatgttg accattctag aaagtctgca gagcatgctg taaaggcgat caaaggcaaa 360  
gag 363

<210> 28864  
<211> 370

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-013-Q1-K1-E10  
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 ctctgatggc ctgaagcaca gaggctttga ggtttgtcta gctgatcttc aggggtgacga 180  
 ggatcaggct tacaggaaaa tcaggctccg tgctgaagat gtgcaaggca ggaatgtgct 240  
 cacaaacttc tggggcatga attttaccac cgataagctc agatctctag taaagaagtg 300  
 gctgacattg attgaagccc atgttgatgt caagacatcc gacaactaca tgctgcgttt 360  
 gttctgcatt 370

<210> 28865  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-013-Q1-K1-E11  
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 cattcttcag agtaatgtag aggatcgggt cccagcagta ttaaaactgg aggaagaaag 180  
 taaaacactt cgggattttc atgttggtga tattgaactc ccagggcagt acttcacaga 240  
 tcaggaaatc gcaccggacc aactgttaa gttggacaga gttggacctg acattccaat 300  
 tgtccggagg catggcagta gctttcgacg gttgacactt attggttctg atggttcaca 360  
 gcgccatttt attgttcaga catcactgac tccgaatgct cggagtgatg aaaggatgct 420  
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 <211> 375  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-013-Q1-K1-E12

<400> 28866

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cagcagacaa tttggccacg tgctgcagca gctgcagagc ggctatggac accaattgag 180

aagctggcga aggacacaag atcgggtcact gcatgattgg cacgcttcag gtgcttgctg 240

aatcaaagag gggttgctgc tgcaccaacta gctggttatg gccgctcggc accatcagaa 300

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<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E2

<400> 28867

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atgcccgtac ggagtgggtga tgtcactgca attaagctaa aatgattgct cattacttga 120

agccgatatt gttgttgtct ggtgttggag gcagaccatt gactactcta ttttaagggtc 180

aagtt 185

<210> 28868

<211> 421

<212> DNA

<213> Zea mays

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<400> 28868

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ttgggtgaatc ttagcataga acttgacctt ctattatttt gtatgtttgg tttgcatggg 180

ataactggca tgggatatat ttatgtacat tgatatcggt tttatgctta ctcacatggg 240

ataatctgat cttctaactc aagatatttt tcttttggtg atatgatcgt ttaacttaag 300

tttgcattca ttttagactt taggttatgt tagtcataac atgcttggtt agacatattt 360  
acattgtttg atcatatttt cttttcatgt tacgtttgta ttatttggtat ctcggtgggt 420  
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<210> 28869

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E4

<400> 28869

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gaccatcgtg gttgtctggg cgatcctgct ggctgcgatc ttctccttgc tgtgggttcg 300  
catcgatccg ttcaccacc gcgtcactgg cccggatact cgaacgtgtg gcatcaactg 360  
c 361

<210> 28870

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E5

<400> 28870

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ccagcagatg ctcgaccagc tctttgatct caagcgcaag gaacaacaac tgcaagatgc 180  
taacaaagat ttaagaatga agatagaaga aactagtga gaaaatgtgc tgcgactgtc 240  
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ccttcaactt gctctagaac cttcgtgca tatatgggtat caaggctaca tggaccacct 360  
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atatgtt

427

<210> 28871

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E6

<400> 28871

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ggatgggtttg gatgtgcccg tgtaggtatc ttgcgtgact cgtatgcaca agcttcggcc 120

acccgtggaa agcagaagac ttggaggaag aagcgaaagt aatgatcttt ctcttcctta 180

tgtttttgtc atttggattc atttagcttt gctcttggtc tgtagtttat ggtgcttctc 240

gattagatca ccggtcctac gattgttaac ttttcatgcc gactcattgt ggatcttgca 300

gtggttccta cggatattaat ttgtctgagt 330

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-E7

<400> 28872

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gggtcgattt taatggcccg agcagggttat taaggttact cgtagtacat tctagaacca 120

cccgcacgaaa gcataatact 140

<210> 28873

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B12

<400> 28873

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gtgacacttg cggacgtgtc taatgaatgc acggagctgc ataagaggat cttgtgctgc 120



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acacttttat 189

<210> 28874

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B2

<400> 28874

gattaaaagt ctaggagcat aggcaggagt ttttatgaat ccagctacta cactcactgc 60

agtggattac attcttgatg gcgatgacct gctcttcatt acgtatggca ctcttgctca 120

cgaagaaatg agctttatgt gtgtgcaagt tcggctctgta tgttttcttt agatttggtt 180

agtcattacc ttatattggg cctttactct ctatttttat gcattttgtc ttttttttat 240

tttttctctt ctttattttt tacttttggt gttttttttt ctttagtttt gtctttattt 300

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<210> 28875

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B3

<400> 28875

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gctggcagtc tttcaaacct tgccaagtgt gcagcttcca ccttcaaact acttggtgct 120

gagaaggccc tattcagagc actgaaaact cgagggaata ctccaaagta tgggcttata 180

ttccactcct cctatattgg ccgtgcttca accaagaaca agggcagaat ggctcgttac 240

ctggcaaaca aatgctcgat tgctttacgc attgactggt acttggaggc tagttcctct 300

gtctttgggc aaaaattgct 320

<210> 28876

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B4

<400> 28876

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atggcgattg ttgagttcga cgagcagccg tcggataact tcgaccgaa gaaccgcgtat 120  
gccgaccgcg tggcgatgct cgagtaccgg gaacacctgg tgcgagagaa gtggatccag 180  
atcgagaccg ccaagatcat ccgggagcgc cttecgctgg gctaccgcat cgagggcatt 240  
aaccaccacc agaagtgccg tcacctcggt taccaatacc tataggc 287

<210> 28877

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-013-Q1-K1-B5

<400> 28877

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cccattaaga tatttgggtga tctgcatggt caatttgggt acctcatgcg cttatttgat 180  
gaatatggcg ctcttcaac agctggagac attgcttaca ttgattatct tttcttggga 240  
gattatgtcg atcgtggtca gcatagtctg gagacaatca gtcttctcct tgcactgaaa 300  
gttgaatatt ctcaaatgt acatttaatt cgaggg 336

<210> 28878

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B6

<400> 28878

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ttctccatt tttatatttc tcttatcttc attatttttt tccattacct tattctctta 180

tcttattttt atttttcttc ttttacttct ctttacattt ctctcattga ttttctttat 240  
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ttattcaatc gttttttttt ttcttatttt tcttttcttt ctctctaat cttttatttc 360  
tttttgtttt ctttctttta tttttttttt caattttttt attttttttt ttatttatat 420  
ttctctatta tccttttttt tttttttttt ctttatttat tttttttt 468

<210> 28879  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B7

<400> 28879

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ccagtacttg agtcaggtaa tgtgtacaaa gttgcgtctg atgctgcctg tcattgaatt 180  
gtttggcatg tgaggaagat ttaaattgaa tattcaactt ttgtggcat gatagttgca 240  
cttattttta ccaataatat tcattattag gattcttttt ttttcttctt ttttttttta 300  
tgttttattt tacgttagtt tttttatttt tcttatcggt ttattatatt tctctttatt 360  
t 361

<210> 28880  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B8

<400> 28880

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gcttgagaag gacaaagagt tatttcaact agcccagcaa taccacaaag tggttgcaga 120  
aagggatcaa gccattgcag tcaaagatag actagaatct cttttaggg aatttcagcg 180  
tcaaaacaaa atgctaaagg aagagtgcc aagggtatcg acagagggac tgaacatgcg 240  
tacggaattg tctgaaaaat ttgatcatgc catatagggt gtcagtgcc aacttgatga 300

gcatagagtt gagcgcatth ctcagctaga aagagaacaa tacgttgaga agtaaaactga 360  
aagaccttgc tgatcaatth acattactta gcaaaaaatat gctcaccaat 410

<210> 28881  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B9

<400> 28881

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acgtggggagc tggagaacaa cattcccgcg ggggcctccg acccggacgc gatggacgcg 180  
atctaccgct acgacgacgc gtctcaggcg cgggcgcagc aggagaagcc ttgggccaac 240  
gacccgcacc acttccgccg caccaagatc ttccgcctcg cgctgctcaa gatggtcgctc 300  
cacgcccgcg cggggggcac catcgaggtc atggggctca tgcattggcaa gtgtgagggc 360  
gacgccatta tccgtatgga cgcattcgcg ctccccgttg agggca 406

<210> 28882  
<211> 339  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C1

<400> 28882

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atagtacgat ggggaacagc agctttgcat ttgagtgttt gctgctttac ttatthttct 180  
atatgctgtt ctttttgatg ttatatgctg taaggaaaat ctgtacatga tggtagctta 240  
gggtatggca tgctggagtt cccctttaac ccgaagagcc ggatactttt gccagcctcg 300  
tcagcatgtg taaacagttt gttttcttgt tttattgac 339

<210> 28883  
<211> 165  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C10

<400> 28883

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ttggtgaatg tcatcataga acgtcacctt ctattatctt gatatg 165

<210> 28884

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C11

<400> 28884

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ctgaagccgc gcttgacctg ggacaacgtc aagaagagcg ccgaccaggc cgtcgaccgc 180  
tacatcgaga agtacatcga cacgagctcg ccggaccctc tctaccacgt ctgcatcgga 240  
gggatgatct tctcctactt cgtcaatctg ccctggggagc gcgcccacct cgcccacctc 300  
gaggagatgg agaggaccgg tgggaagcac tgatccgctg ccccgttctc gccggcagcg 360  
cgggaggact cgtgactttc atgggggtcca ttcaggctga cgacttctgt tttcttctgc 420  
tgttgagcta ctggagtcac gttacttt 448

<210> 28885

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C12

<400> 28885

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tcattgtctg gatcatcttt ttctccttgg atgtgttgca tcttttgagt gtggaaatgg 120  
atggtactcc tcgccatgaa tttgctgggt actttataca ttgctttgta actctgtttg 180

atgataaact ttgttggtggc 200

<210> 28886  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C2

<400> 28886

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ggaggcaagg gcctgggtaa gggcggcgcg aaacgacacc gcaagggtgct ccgcgacaac 120  
atccagggca tcacgaagcc ggccatccgg aggctggcgc gcatgggcgc cgtgaagcgc 180  
atcttcgggc tcatctacga ggagaccgcg ggcgtgctca agatctttct cgagaacgtc 240  
attcgcgacg ccgtcaccta cactgagcac gcacggcgca agaccgtcac agccatggac 300  
gtcgtctacg cgctt 315

<210> 28887  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C3

<400> 28887

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gaaccgtgga attacttggg gggatgattt aacattgtga tagccctctg attctcaaaa 180  
aaagaataac acaacctctg gtattatgta atttatgatg ggccacaaat tgccattgtg 240  
cttccatttc tgaaaacaag attgatgtca ctcttgatc ttcaatgagc agttgattct 300  
taacttaaata aattaaattt tttttatttg ttttattttt 340

<210> 28888  
<211> 60  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C4

<400> 28888

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<210> 28889

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C5

<400> 28889

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atttcctccg tccccgaacg atcgatcttt tgcattggcag cagcggctag ctccaagggg 120

cgggcgatcg ctgggagctt cgtcagccgc gtcctggccg gcaaggccgt ctccccgagg 180

agggccgtgc acgcctcgtc ttacgacaag aaccctgttg agcatgtgcg cccggcgctt 240

gtgcctgact atgtgac 258

<210> 28890

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B11

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gtggcaattg ctgaccaggc taccaaacca acgtcccttc ataagctcgg tggccagttc 120

cacctgcgct cgatcatctc tgaagggtga cgggtccgta acatatgcc atctgtctca 180

tcttatgaaa ggagatttgc cacaaggaac tacatgaccc atagcctttt gtgcccttcg 240

atgtctgtta gcggtggcat caatgtccca gtgatgcgga ccccgctctg tgctaagtct 300

cctgctgaga aaggaggc 318

<210> 28891

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C6

<400> 28891

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cataatatca tgcccggcat caagggtgac aagggttttag ttccattgcc tggttccaac 120

aatgaatcgt ggtgccaagg tcttgatggt ttggcttcaa ggtgtgctga gtactataag 180

caggggtgccc gcttcgcaaa gtggaggact gttgttagca tcccttgtgg tccatctgca 240

ttagcagtgt aagaagctgc atggtgactt gctcgatttg ctgctattgc tc 292

<210> 28892

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C7

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ccagggccgac cagctccgga acgcccggcg cctgcaagtc cagtacattc ggggtggcgtg 120

caactggaac ggcttggaca tcgccttcag ggtggacgcc ggctcaaacy ccaactacct 180

ggccatggcc atcgagtacg agtccgggga cggggacctg cgcgccgtgg aactgaagca 240

gagcggcgcg gcggcggtgg cgcccatgca acgctcctgg ggcgctgtgt ggcagtacaa 300

gtccggctcc accaatctgc aagccccctt gtctgatcgc ctcaccttgg gcttcggcag 360

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<210> 28893

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-C8

<400> 28893

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gtggtgaatc agaatccaga tcagcgtcta acgtggcttc caccactgag aaacaacagt 180

agcctttgac tttttcccc agtttgcgtt catcagattg aaagccaagt gcgtgtataa 240



atcttacttt cttcaacatc attcgttgct accatatgca accttgcccc ctcccgaact 300  
 tcggcggttat ttttatttca ctggtttcat gttacttctg gaaaaactac ttggggattgg 360  
 tttccttcct taattattct gcatatgctg aatgatattg cctgccggaa tgggatgcat 420  
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<210> 28894

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A1

<400> 28894

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 cgacagggat ctgcacagcg ccggcgccgg caccggcacc gagcttggag gagttcccca 180  
 cgacgacaga agacacgtgt gtgaagatcc tcgccgacag cggctgcgtc cacaaccaca 240  
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<210> 28895

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A10

<400> 28895

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 cgccgaggcc gcgtcgacgg ctgcggtgag gacggcgag aaccgcctcg aggagttctt 180  
 cgaggctgag cggagcaccg aggagggcaa gcctcctccc cactacggtc gcagctggaa 240  
 ggcttctgaa ctgcgactaa aatcttggga tgaccttcag aaattgtggt atgttcttct 300  
 aaaggaaaag aacatgctaa tgacacagcg tcaaagtctg cattcagaga gcatgaggtt 360  
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 gactgatagg tctatagcgg agcccgatcc 450

<210> 28896  
<211> 437  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A12

<400> 28896

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cgcctaccaa cctcaaggag cgatggctct gtctgcgacg ctacggattt ctcttagcgt 180  
cgcgttcttt ggggttcttg cgttcgtgct tgggtgtcatc gccgaaaaca aaaagcctgc 240  
ttccgggact cctatcctag gaaaggatgt cgtcatctgc acgtttccaa gtgatccgac 300  
tcttgcgatg gggagcctgt ccattggggc acttggtgta gctgccatcg tatgccatgt 360  
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cagcttgata gtgttct 437

<210> 28897  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A2

<400> 28897

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ttgcaaagat tggatttga tgaaaaccca tatgcatttt atattcattg ttttgctcat 180  
caattacagt tggtggtagt ttctattgcc aaatgttgtg actcagtata tgatttcttt 240  
aattacatct tattgattgt caatactgtt agtgcattct gcaaaaagaa agatcttctt 300  
cttcagagac atcatgataa aattgtggaa gaattagata gtggtgtcta tattttctgg 360  
gagaggaaaa aaccaagaaa cttgtctcgg caggtcaggg gatactaagt ggggccca 420  
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<210> 28898

<211> 229  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-A4  
  
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<210> 28899  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-A5  
  
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 catggagcaa gcagccatgc cgcagggttc cgcggtcaag ctccggcatcc aggggcttga 180  
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<210> 28900  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-A6  
  
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 tcggaactga cattgaagac tacaaatgtt cctggctagt tgtgcaagct cttgagcgtg 180  
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<210> 28901  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A8

<400> 28901

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cgagggtttg ggtttgtcca gtattatgat cctgctgatg ctgctgatgc gaagtactat 180  
atggatgggc aggtagtctt tggtaggcaa ataacagttg tttttgcaga agagaacaga 240  
aagaagcctc aagagatgag agctagggac agagtcaggg gtcattctta tgatgacagg 300  
aggtattctc gctctaggtc gcctcggtat tatagggggc gctctccttc acgcagtcaa 360  
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ggctcacctg tggacagcag atcaag 446

<210> 28902  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-A9

<400> 28902

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tgaaggaatg gatatggaaa ttgatttgct caatcttgga actgtgaaca caatgtttgc 180  
agcacttttt agcaagcttg gtgttcctat caagaccaca gtatctccta ctgtgctgga 240  
agaggccatg aatggcacag atacagtgag accactccct gttggaacat cagctactgg 300  
ataggttgat atgcaatgct cttatTTTTT tggcgtaaca ataattgaag agcaagctca 360  
ttc 363

<210> 28903  
<211> 315  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B1

<400> 28903

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cgaagaagtc ggtgtcgcgg tccgccaggg ccggggtgca gttccccgtc agccgcgtcg 180

ggcggtacct caaaaagggc cggtagcgcg agcgtgtaag cacgggtgcc cccgtctacc 240

tcgccggcgt tctggagtac cttgcggtcg atgtgctcga gctcgccggc aactcggcaa 300

gggacaataa gaaga 315

<210> 28904

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-B10

<400> 28904

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acatgcgacg tggaaaacaa cattggcttg gtatcctccg actatgactc gatagacgaa 180

atctatcagt actacgactc ttcttacgct caggcgctac atgagaagcc ttgatccaac 240

tac 243

<210> 28905

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G7

<400> 28905

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tgatgatgat actctctact acaccaatca tcaaagaaat ggatatctgt gaaatcctat 180

tcctatatattc agcattgtat taagagttca cctataaacac aact 224

<210> 28906  
<211> 56  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G9

<400> 28906

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<210> 28907  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H1

<400> 28907

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cggctcttggg cccctcctca agagaagaag ctgaaccatg gggaagagaa agtcagctgc 120

taagccacct tctaagaatc gtatggacaa gcttgacact gacttttctt gccattctg 180

caaccactgg agtcgtgtag agtgccgaat tgacatgaag gaatctgatt ggccaagcat 240

cttgtagaat ctgtcatgac tacttcagca caactgttta tgcgctcact gagcctattg 300

atatatatag tgaatggata gatgagt 327

<210> 28908  
<211> 192  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H12

<400> 28908

ttcgggcttt gcttagttcc ttcctctctc tagatctcgc ctatacaacg accagcggag 60

ggtacgtggg tggagatcca agaagcgtaa gaaatggtag cccacattgc atccgagcat 120

gcttgctatg tcaactgcag ctattgcaac actatactgg aggtgaatgc gccaaagcata 180

cgttgactac aa 192

<210> 28909  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H2

<400> 28909

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cgtcggtctt ggttcctctc tcaagaaaag atgctgtacc atggggaaga gaaagtcagc 120  
tgcttagcca ccttctaaga agcggatgga caatcttgac actgattttt cctgcccatt 180  
ctgcaaccac gggagtagtg ttgagtgccg aattgacatg aagaatctga ttggcgaagc 240  
atcttgtaga atctggtctt gaaaacttca ccacaactgt ttatgcactc actgagccta 300  
tttgaatata tagtgaatgg att 323

<210> 28910  
<211> 130  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H4

<400> 28910

cggagcgggc agcaacacac agccccaacc caaaacaaga cgagacgggg acacgccaca 60  
agaaaagaag cggaaccaag ggggaagagaa agacagcagc gaagccaccc acaaagaagc 120  
ggacggacaa 130

<210> 28911  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H5

<400> 28911

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tggatgtaac gtgggatatg cattcatcaa tatgacagat ccacagcaga tagttccatt 120  
ttacaagaca ttcaacggca tgaaatggga gaagttcaat agtgagaaag tggcatcact 180

tgcgtacgcc agaatccagg gaaggaacgc tatgattgct cattctcaga attctagcct 240  
 gatgaatgaa gagaaatggg gccgccctat gcttattcac aaagatggcc ctaacgcatg 300  
 agaccaggaa ccattccctg tgggtaacaa tgtatcgttt tcgggtctcgg aggaacata 359

<210> 28912  
 <211> 218  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H6

<400> 28912

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 ttacatgaca ttcaacggca tgaaatggga aaagttcaat agtgataaag cggcattact 180  
 tgctgtacgc ctgaattcag tgtatgaacg cttagatt 218

<210> 28913  
 <211> 248  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G6

<400> 28913

atttacgtgc tttggtgata tagcactggc aattggggag gactttgata agtttgggat 60  
 cgggtgctatg cctatgctgc atagagctgc tgatttgtcg gcccatacca ctgcaactga 120  
 tgatgagatg ctctgactac accaatcagc tgagaaatgg aattttggaa gcctactctg 180  
 gtatcctgca aggatttaag agttcatcta atacacaact gatgaagcca ttcgacctt 240  
 atattatt 248

<210> 28914  
 <211> 202  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H5

<400> 28914



accacgcgtc cgctgggttg gggaaacaaa atatagaaag catattcttc aggcactttt 60  
 atagatatag tatcttgcac agtttaagag taaaaagggt cgacttcaaa tgtaacgtgt 120  
 ttgtgggggt ctttcaaacc actggagatg atttactatc ccctaagatg agattttaa 180  
 ggtttccttt ctgcagactg ct 202

<210> 28915  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-010-Q1-K1-H6  
 <400> 28915

aatatccagc gtttgtgtca atctggtaaa tgccgacttg accgcacagc agacgggagt 60  
 gcgcatcacg gaggagagga tcctactgga cgggtcacct gaaacaccta tcgattacat 120  
 tcaagttcag attgccaatg tcgagtccaa atttaccagt gcgatatctg agactggaga 180  
 gatcactgtg gagggcagag tgaaggatgg tgttctcat ctaacaaagg ttggagcatt 240  
 ccaagtcgat gtgagcttgg aaggaagcct catcctttgc aggcacgttg atcaaccatg 300  
 gatgattggg tcaatcgga gcgcttggg tgacgagaat gtaaagtca gtttcatgag 360  
 tgtttgaag aatt 374

<210> 28916  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-010-Q1-K1-H7  
 <400> 28916

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 aggaagaagg tgatgccagc tgcattgtg aggtagcgca agccatgggt ctgaaaggga 180  
 tgacgtctac atgtactttg aagaagcaag acaaataaa ggatgctgaa cctagtgcaa 240  
 tagatctttt taaggagatg cattgcagca aaaagaaagg gtttagcata tatgttcaga 300  
 aagctattgt tgatatggaa gaaatggtgg caacatcagt tcaagatgga caacaaccga 360

aatatacctac aaaagttggt tatagtgtgc aacttggctc cagtgtgttc ttatgcaatc 420  
t 421

<210> 28917  
<211> 387  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-010-Q1-K1-H8  
  
<400> 28917

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taaagttaac gtgggatatg cattcatcaa tatgacggat ccacagcaga tagttccatt 120  
ttacaagaca ttcaacggca agaaatggga gaagttcaat agtgagaaag tggcatcact 180  
tgcgtacgcc agaatccagg gaaggaacgc tttgattgct catttccaga attctagcct 240  
gatgaatgaa gagaaatggt gccgccctat gcttttccac aaagatggcc cgaacgcaag 300  
agaccaggaa ccattccctg tgggtaacaa tgttcgttct cggtagcgga ggaacagacc 360  
acttagcagt ggttcggaga ctaccaa 387

<210> 28918  
<211> 131  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-011-Q1-K1-A1  
  
<400> 28918

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aggaacaggc attgtactat tacggtcaat ggcgtttaa tccgatggg tcacttaggg 120  
aatgatgatg t 131

<210> 28919  
<211> 144  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-011-Q1-K1-A2  
  
<400> 28919

aacggccaag cggaggaaac aaaagacaaa aaaggagcaa gcagcacaaa agccggggga 60  
 caagaagaac aggcaggaaa caacaacgga caaaggcgaa gaaagccgga gggaacagaa 120  
 agggaaggaa gacgaccgca aaaa 144

<210> 28920  
 <211> 333  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-011-Q1-K1-A5  
 <400> 28920

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 ggggtattctc cctcttgccg gttcccaata aagatcagct gctcatgatg tctgcagag 120  
 cgagaagaag gcaatggcgt gtcgacagct ttcttttcac ctctgagtcc acgaactagg 180  
 ggcaccctga caagctgtgc gactcagtgt cagacgccgt gcttgacgca tgccttgccg 240  
 aagaccetta cagaatggtc gcctgctaga cctgcaccaa gaccaacatg atgatggttg 300  
 tctgctagat cagaccaac gcgaccgtgg act 333

<210> 28921  
 <211> 177  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-011-Q1-K1-B1  
 <400> 28921

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 ccctggggaa ggtcatgcaa tgctatgtgc ccactatcga ccacttctag cggatagacg 120  
 agcagtgcgc attcatagtg cggctgtatg ctgtgttacc gaatggacgc atgttgt 177

<210> 28922  
 <211> 52  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-011-Q1-K1-B5  
 <400> 28922

aacgcacgta cgtagagcgt ttgactctca tgcatgccat aacatgcagt ct 52

<210> 28923

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-B6

<400> 28923

aacacacgtc tgtagaccgc ttgatattct tgctattctt aacatatatt c 51

<210> 28924

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-B7

<400> 28924

accacacgta tgtagagagc ttgatattca tgcttgcctt aataaacagt ctcagacgat 60

agtgcacgat atatcacgta cttatgttta tatt 94

<210> 28925

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-C1

<400> 28925

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gagagctgtg atgagaaaagg ctatctctgc agagagcctg atatttgaag actcatttga 120

cggctaacat gtggtactag tttagacata tgtctggact gctatctctg aaaggttcgt 180

cacggctctgc taagctcata atttttgaat atctgatagt cgaaataagg aaggatcatt 240

tatgtgtagc aatagctaaa tggtatt 267

<210> 28926

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-D6

<400> 28926

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ctggaatata tatggaggag cttatgtccc gttttatgga tgagtaacag ttggtatggt 120  
gacaggaaca agtacctatt attcatatct tcattttggg cagttttgaa aactactat 180  
caactattca atagtacaat gcttctactt gctacaattc ttacatatgt tacaattatc 240  
aactgaatct tctacagttg ctgtatgtta ccgtttatga tcagtaatat tgaagatcat 300  
ttggt 305

<210> 28927

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-D7

<400> 28927

tcgaccacgc gaaagattag acatgcagtt tcgctttctt gactatggtc atccaacaag 60  
cgtcggcgta tatattatga agagcttaga atccgattta tggtaggacc aacatcgga 120  
atggagacat gtacaagttc ctttaataca tatgactcat ttagccaagc atgatacact 180  
actaccaact ttaca 195

<210> 28928

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-E1

<400> 28928

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aagctttggc tgagtgccca ttattgactg ctttaacagt caacgatgct tctattggga 120  
gtggcattca agaagtaact gttaatcatg atggacatgc gtgagcttca tattttgaag 180  
tgccatgcac ttagaatatc ttgcagatga tcccaacttc aaatactgtc tttgaggcta 240  
acaggcatgg ctcatgtatc tctgaactgt gctcaattgc ttgagttgga cttccaatcc 300

tgccataagc tttttgac

318

<210> 28929

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-E3

<400> 28929

cttgtacgca tcgtaagaac atatcagatg ggctatggac aactgctaga atcatttttt 60

caagcta 67

<210> 28930

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F1

<400> 28930

cccacgcgtc cgcccacgcg tccggcagat ccttccagcg gctgtcgctg ttctgttcc 60

accttccggt gatcataagc aagcagcttc tgtgatgctc aagggcatga ccgcccattg 120

tctgcttcgc cgggtattca aggtacaaac aaaccctaaa ccctaaccac tacttaattg 180

attgattttt agccctcttc ttacagtatc cactcagtct gggatctcag cccttggtta 240

actgaatgtg attctgacga ccccttctta ttactttgcg cgagcgttct gacaattgtt 300

tatttgaaca atcaattgga tatgtaaaca gtaagcaaaa atgacattgt atatttatat 360

aagtaatata taggtctatt tatatacatg gaagccgata catagtatga aaattgtgat 420

taggaatttt gaaagttttt tagattgatt cag 453

<210> 28931

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H4

<400> 28931

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tggaccatgt tgatttgttg agagaacagt tgaaaatfff gtcaggggag gttgcgttta 120  
 atacaagtgc tcttaagcgc ctcacagagg aagctggaag aagcccaaag aacgagaaga 180  
 ttcagatgga aatgaagaag aagaccgatg aaattaaagg gaagcatcaa cagatagcat 240  
 ctttggagag agagatagct catgcaacat taggaactca aggaaaggtc gatacgttag 300  
 agcattcacc gtcttatcat gaactacttg agcagctcaa tgagaaatct ttagaa 356

<210> 28932  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F5

<400> 28932

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 cttaaccaaa attaaagtta ctaacatcgc tgtgatgaat ggggtgaatcg taacctatff 180  
 cttggaaata tcatctgctt gctcgaagaa cagctgcgct ggtccagcta tctgggtacc 240  
 gtactatcta ccatcgattg aactgtatat ggggtcaaagt aatctgggga tatactctff 300  
 gcatgctagg atataagggtg ttactactff taattcttaa atcactatat atattttaatt 360  
 ctcttttatc aattff 376

<210> 28933  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F6

<400> 28933

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 tcggaaccaa aattaaagtt cctgaacatt gctgtgatga atgggtgaat cgtcacctff 180  
 tactatgaaa ttagcaactg tttgcacgaa gaacagctgt gcttgtccaa ctatctgggt 240  
 accgtactta cctatctcta ttgaacagta ttttggttaa agtaatgggg gagatactct 300

ttccatgcta tgaaaaaagg tggaactacc ttttaattcta agattaagaa a 351

<210> 28934  
<211> 163  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-F9

<400> 28934

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gaagccatgg cgtcaaagag gctgctgctt ggggcgctgt gcg 163

<210> 28935  
<211> 282  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G1

<400> 28935

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cggactacct accgtactag tgctggtagc tgattatcgc caatagcacg tatcgtgtat 180

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acctacacca catttgctcc tagacacaca tatctttcaa gg 282

<210> 28936  
<211> 99  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-G2

<400> 28936

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cctgcggcag gtcatatgcc atggcggcct ggtcctatc 99

<210> 28937



<211> 327  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-011-Q1-K1-G5  
  
 <400> 28937  
  
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 cggtgcgatg cctatgctgc aaagtgctgc tgatttgacg gcccatacca ctgcaactga 120  
 tgatgagatg ctcgactaca ccaatcagct aagaaatgga atcttggaag ccttctctgg 180  
 tatcctgcaa ggatttatga gttcacctta gacacaatct gctgatgcct ttcgctccgt 240  
 atataattca gatccttgat gctctgtaca atgtgaagga tatggatgat actgtgatta 300  
 atactgcaat atgtgatttg tgagatc 327

<210> 28938  
 <211> 141  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-F5  
  
 <400> 28938  
  
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 ggacatccga cttacaagg g 141

<210> 28939  
 <211> 370  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-F7  
  
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 cggaacaaaa attaaagttc cgaacatcgc tgtgatgaat gggatgaatcg tcaccttttt 180  
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gtactcccta ccccgattga actgtatttg ggtcaaagta atgggggaga tactctttcc 300  
atgctaggat ataagggtga actaccttta attctaagat caagaaatat atttaattct 360  
ctttatcaat 370

<210> 28940  
<211> 391  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-010-Q1-K1-F8  
<400> 28940

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gcacagagtt cgatccaacc acaaaaaccc catgtgttat tttcatgccg gaggggtcaa 120  
aaacccatat gggggcaaca atgcgccttg gatcaaggag gacctttttc caggtcacta 180  
actgcaaatc tgctaaactg tatgggaatg ctagctacgt tgatgaacgg caccgccaca 240  
gatactaggt gaatcctgat atgggtcccag aatttgagaa ggcagggcctt tctttcgttg 300  
gcaggggatga aagtggtaaa cgcattggaga ttatcgaact gccaaactcat atgtatttcg 360  
tcggtgcaca atttcacct gaattcaagt c 391

<210> 28941  
<211> 339  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-010-Q1-K1-F9  
<400> 28941

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atggcgtgaa aaagatcggc atagacacca ttgatcaagg tgaggaggat cccggggttg 120  
cagggttttg ctgcatggag accaccacat ggcagtgccg acagaatcat gaaaacttgt 180  
agattgtcat ctattggcg gttgcatttg cttcattgtg ttttgcacct tggattgtaa 240  
cttgcagagc aacatgaatt tgtagaacct tcattctcac tagttcccaa aattctcgag 300  
aaataattta tggtgttact aatataaaaa ataatttta 339

<210> 28942

<211> 252  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-G10  
  
 <400> 28942  
  
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 tgggctgatt acaggggaaga tcttttgccg ggtttggccg tcagagagtc ttggcgcaat 120  
 tgatgactca tcgaagcagt cttaacgctg atgaggagcc gaggagcaca tggacccata 180  
 ttgtttgatc gcgcccagag attctatcta taacatactg catgggggcc ctttattgag 240  
 ctcgagagct tt 252

<210> 28943  
 <211> 392  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-010-Q1-K1-G11  
  
 <400> 28943  
  
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 agagggtccgc gatgctgcta gagaagctgc tcttcgtgag atcaaggagc gcatcaagaa 120  
 gaccaaggat gagaagaaag cgaagaatgc ggatgtgagc aagtcccaga agacgcagac 180  
 aaaggggtgcg gtccagaagg gttccaaggg ccccaagttg ggcgggcgtg gtgggaagcg 240  
 ctgaaagaac ttagtgctgt ttctcgacat tgcagtcgtt ccttagccaa agccactttc 300  
 gtagaacctg tngtgaattt gcaagactta ttcaagcgtt gcttgtgcgt gctaaatacc 360  
 atggcaagag aacggattta tatttatgcc tg 392

<210> 28944  
 <211> 343  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-G2  
  
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 gctccaacaa catagcagtc tgaagactat caagaagaag ctgatccgca aagctcttga 180  
 catgattagg aaacttgctg aagaagaccc tgatgagtac agcaacaagg ataagacaga 240  
 tgaagagaaa aatgagatgg aggagaagaa gggccagtac gccaaagttct ggaatgagtt 300  
 tggcaaataca atcaagctgg gtatcattga agacgcaact aac 343

<210> 28945  
 <211> 395  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-G3

<400> 28945

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 cgccgtaccc accgtactac tgctgctagc gtccctcgcc aagagcacgt cgctcgccgg 180  
 taggggcaag ccgccggtcc ctccctagcc gtcgggcacc ctcccatcg tggggcacct 240  
 acaccacatc gggccccaga cccacatctc gctccaggag ctggtggcca agtacgggca 300  
 caacgggttc ctgttccttc gcgccagcgc cgtgcccacc ctgatcgtgt cgtttgccaa 360  
 cgccgtcgaa gccgtgatgc gcacccacga ccaca 395

<210> 28946  
 <211> 262  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-G4

<400> 28946

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 cgagcccgcg gccgagaagg cgcccgcggg gaagaagccg aaggcggaga agcgggtccc 180  
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 gaagagcgtg gagacctaca ag 262

<210> 28947  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-G5  
  
 <400> 28947  
  
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 cggcagccgc aagcctgcgt aggcgtagga ccacaagcgg tgctgctgct ggtggaggcg 180  
 gtgccagctc aatgctccaa ttctacactg atgaggctgc cggccgcaaa atgtcaccaa 240  
 aactgtttct gatcatgagt attgggttcg tagccgtcgt tgctgtgctc catgtattcg 300  
 ggaagctgta ccgcaccttc aactaggttg gcattgccat atccaagaaa gctgagtcca 360  
 ccaagagagg attcctgtag aacaatttaa atggatagca agtgactatc agactctgtt 420  
 gtagaagttt atttatac 438

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 <211> 386  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-G6  
  
 <400> 28948  
  
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 tccccgatcc ggtcgtgtac ccaaccggcc gatcggatcc tgccgtgtgg attgaacgct 180  
 gaattgtgga tattcaagat tttagaggaa catgggcata gcatggaaga gttctatgct 240  
 atagaatcat ctaaaattga tgataaacia atacatctat atggaattac tgaaggacat 300  
 ggcggagcac gtgctgctga gtatttgaag gagcatttgt ctgagaacct tatttatcat 360  
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<210> 28949  
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<212> DNA  
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 <223> Clone ID: LIB3067-010-Q1-K1-G7  
 <400> 28949  
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<210> 28950  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tgatgagatg ctgactaca ccaatcagct aagaaatgga atcttggaag cctactctgg 180  
 taccctgcaa ggatttaaga gttcacctaa gacacaactg ctgatgccat tcgctccgca 240  
 tattattcag ttccttgatg ctctgtacaa tgggaaggat atggatgata ctgtgatgaa 300  
 gactgcaata ggtgtcttgn gagatctggc tgacacatta tgtgtccatg cttgcccttt 360  
 gatcaaataa ttcaacttaa ggcaggcatt tttaaaggaa tgctt 405

<210> 28951  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-010-Q1-K1-G9  
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 gcatttgatg gttgatgttc ccaggaagca tggccagcgt tgccagtttt ttttgcacga 180  
 aagagtaatg ggagctcttg tacagacaca tacttaatga taaaattgta aaactcactg 240  
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<210> 28952  
 <211> 319  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-010-Q1-K1-H10  
  
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 cctccccgat ccggtcgcct acccagccgc ccgatcggat cctgcagtgt ggatggaacg 180  
 ctgaattgtg gatattcaag ttttagagga aaaagggcaa gcatggaaga tttctatgat 240  
 ataaaatcat ctataattga tgnataacaa atacatctct ttggaatttt tgatgggtcat 300  
 ggcggntcac gtgctgctg 319

<210> 28953  
 <211> 232  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-010-Q1-K1-H11  
  
 <400> 28953  
  
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 aagaccagtt cccctctcct gatcgctcctg ttcctcacag cagcagccat ggcggccgag 120  
 ccggagaagc aggcggcccc cgcggcacag gagacggccg tgcacatcgt gtacgtttga 180  
 ccgcccgagg acgccgaccc tgaggagtgc cacanttcga cccttacccc cg 232

<210> 28954  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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accccgcccc ctgccccccc acacgcacag tttagtgcc ggagcccgga ggcgtacgtg 120  
 tacgtcgcat ccagcgcag cgatgccggt caccgtcggc gcccggaacca ccctcctcct 180  
 cttcgccacc gcagtgggtgc tagcgtgcac ttcagcgcgc ccggcatgcc atgccgcgca 240  
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<210> 28955

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F4

<400> 28955

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 tctgcttcgc cgggtattca aggtacaaac aaaccctaaa ccctaaccac tacttaattg 180  
 attgattttt agccctcctc ttacagtatc cactcagtct gggatctcag cccttggcta 240  
 actgaatgtg attctgacga ccccttctta ttactttgcg cgagcgttct gacaattgtt 300  
 tatttgaaca atcaattgga tatgtaaaca gtaagcaaaa atgacattgt atatttatat 360  
 aagtaatata taggtctaata tatatacatg gaaagcagat t 401

<210> 28956

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-H3

<400> 28956

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 taagccacct cctaagaagc ggatggacaa gcttgacact gtcttttctt gccattctg 180  
 caaccacggg agtagtggtg agtgccgaat tgacatgaag aatctgattg gcgaagcatc 240  
 ttgtagaatc tgtcaggaaa acctcagcac aactggtaat gcacttactg agcctattga 300  
 tatatatagt gaatggattg atgagtgtga ccgtgtcaac acttgtgaat gcgacgatga 360



tgcgtgagcc ttgccccatg tgatgaaact gttacctaca atcgta 406

<210> 28957  
<211> 436  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tgggggtccac tgatcttgcg cttacgatcc tccatctcct tacgcttcct ctctgtcatg 180  
attgctctgt caatcagggtg ctggaatgtc gggaagggtg gattcatcag ctgatactaa 240  
agaggggtcaa ccaagcctct caggaaacgg tactgccgct tggcgtcagt gttgacatct 300  
tcaggagcat agcgagacaa ttgcagaaac ctgtctcgat actcactgac agacaatggc 360  
ccttgcttga gagctaggaa ctcttcttc ttactgtca tcagacctgc atgaacatgg 420  
tactgacnga agcttt 436

<210> 28958  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D7

<400> 28958

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gacaggaaca agtccctttt atccatattt ccaatttggg cagtcaggaa acactactac 180  
caactatata agtggacaag gctacaactt gcaacaatac ccacaaatgt tccacttctc 240  
aactgtatct tctacagctg cagctgtgac cggttttgc cagcaatatg gaggaccatt 300  
gtcactagca gcaagccctc aagcccaagc agtgtgtatc ccattaaac aggcattgact 360  
atggcactca cagctccaac cctgccaaact tcaacacagg ctgctcatcc ttaccggttg 420

attcccttgc actttgcaat ttc

443

<210> 28959

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D8

<400> 28959

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aaaggaaacc gtggaaacta cagccatggt ggtgcggatc cgtctggcag cggttcgggt 120

gccggaatcg gcccttctac cgggtgatgg ccgtctatag ccgtccctt cgagacggca 180

agcaccttga ggtactcggc tactataacc agctcccagg gaaggatgga tgcaaaagga 240

tgggcctgaa attcgaccgg gtgaagtatt ggcttgcaat tagggcacia ccattagatc 300

ttgtgcagag tattctcttt tcgagcc 327

<210> 28960

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D9

<400> 28960

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tgaggacata tagggccctc cctgcgtgta tgcttggtac cgtcgtgtcg aaccttgtag 120

tacgaggctc catcgaacat cgatggcttg cttctttatc agaacatgtt tgaataaacg 180

ctatttggtg aaaaaaaaaa atataatttt 210

<210> 28961

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-010-Q1-K1-E1

<400> 28961

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ctattactga actgggaggt atgcgacttc tatgagtagt tgcttattag cctacagaaa 180  
atatagggat ctggagactg gttatgtttc atggctgttc ttctttcacc ggtaccatctt 240  
tatgacgaac gttgtatgac tgattatctt cttgggttacg ttactgctac ggcattggcct 300  
catgaccctn ttttgatcta aaaaaaaaaa atattattgt tt 342

<210> 28962  
<211> 211  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E10

<400> 28962  
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ggagcatgct actccaaagc aaagtgcacc atcagagggt gcgtcgatac cccgcggatt 180  
gcgaaaacag gcttgcaaaa gggttcgagt a 211

<210> 28963  
<211> 284  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E11

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agcttcacaa tctcccgcaa ggccaagcaa gagctcttcg ccatcgggtga cgacatctcc 180  
cgtttttcga gcacggttga agagaaaagca aaatgggtgt tcgagaaaact caaaaggccc 240  
aagaagtgcg ttctgatct actgcgcgag cacaaccttc cttc 284

<210> 28964  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E2

<400> 28964

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atatttccgt tatgaaaagt atacgagttg tatgaccttt agattattag gaaatttaac 180  
agaataatag attgacatac ttatgatcaa ggttctgaaa tgggatctta tatggttaaag 240  
agattaatat agcggatatt tgcacattat gtataatctt tcgtcgaggc ttcctgtgct 300  
tcatattaaa tttgtcctgg aaaaagggtg accattctaa ctctacatta atctgacaac 360  
cctgttattc atttataaaa tatataattt a 391

<210> 28965

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E3

<400> 28965

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gtggcattca agaagtcact gttaatcatg atggactgcg tgagcttcat attttgaagt 180  
gccatgcact tagaatatct gtcagatgta tcccaacttc aaatactgtc tttgaggcga 240  
acaggcatgg ctcatgtatc actgaactgt cctcagttgc ttgagttgga cttccaatcc 300  
tgccataagc tttctgacaa tgcgattcgc caagctgcta cagcttgccc attgttgga 360  
aaactagaca tgtcatctcg ttcttgtgtt actgatgaga cattgcgtga catagctagc 420  
tcatgttcga gtctttctgg tctgatgca 450

<210> 28966

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E5

<400> 28966

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gtggcattca agaagtcact gttaatcatg atggactgcg tgagcttcat attttgaagt 180  
gccgtgcaact tagaatatct gtcagatggt cccaacttca aatactggct ttgaggcgaa 240  
caagcatggc tcatgtatca ctgaactggt ctcagatgct tgagttggac ttccaattct 300  
ggcataagct ttctgacaat gcgattcgct aagctgctac agcttgccca ttgttggcaa 360  
aactagacat gtcattctgt tcttgtg 387

<210> 28967  
<211> 464  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 28967

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atgatggatc ttacanctcc tgtttcttgt aatgtcgttg gctagtttga ggtccaggat 180  
tttgaatntg tgtcctttta aaaanaatgt atgntgttgt aggaactctt tagttctgtt 240  
ggaaatttta ctgaataatg gaagacatct taggttcaag gttctgaaat gggatcttat 300  
atctcaatga gattatgatg gtggatatct gcacatcatg tctaattctt gtcgagtctt 360  
cctgtgcttc agattaaatt gtacctggaa aaaggtgtac catcctcact ctacattaat 420  
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<210> 28968  
<211> 415  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-010-Q1-K1-E7  
<400> 28968

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gcagtactgc ctgtacgggc tctactgata cctcaagggc acctgagcg gccagttcaa 120  
 caagatcttc taggctgtgt tggcgctgcc gtagtgtatt cgtccacac ttcgtactgt 180  
 cggctgctcc ggatccttat gttgtgcttg atacacattc tactagttgt caggcgaaca 240  
 ggtatctcgt atgtatatatt gagacctgtt ataacgctgg ctgagctcta ccgtatgtac 300  
 cgtagggcgc atgtcagcgc gcttggttaac gttgctacaa atagtccatt gttggcaaaa 360  
 ctagacatgt cattttgttc atgtgttaat tgatgagaca ttgcgtgaca taatt 415

<210> 28969  
 <211> 87  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E8

<400> 28969  
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 caactaagaa taaatcaagc tagcagc 87

<210> 28970  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E9

<400> 28970  
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 gggccaccag caacgagtcg ctggagaatg ccttcgcctc ctacggcgag atcctcgact 180  
 ccaaggtcat caccgaccgg gagacgggga ggtctcggcg cttcggcttc gttaccttct 240  
 ccttcgagaa ctccatgctc gacgctatcg agaacatgaa cggcaaggag ctcgacggcc 300  
 gtaacatcac cgtaaaccag gccagtcctc gtggcggtgg cta 343

<210> 28971  
 <211> 268  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F10

<400> 28971

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ggagatggct gctgcacact cggatgggtg gttcatcagg caaaggcagg ttgctcagct 180  
ggaacagaga gcacagcatg tcggttgggc aaccaacca ttaccacgc ccctatgtgt 240  
gctgctacac gactaccaac gatgcttc 268

<210> 28972

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F11

<400> 28972

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cagaagcgat ggcgtcaaag aggctgctgc tggcggcgct gtgcgtgggt gcggcggcgc 180  
tgctcgccgt gcggtcggag tcccacggcc tggaggactt cgcaagcagc gacgcgacgc 240  
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<210> 28973

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D5

<400> 28973

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tatctacctc gcaaccatat gggcaggcgg tctttcatgt ctaaaccagt gtaccactt 180  
gtcttccgga accctgtgtc cgaatcagaa gcgtgcagga tgcttgaggt tagtaatgcc 240  
gggcgagcga caccaagtga tgacagccag gcttctcttc tgtggcgctc cagcttggcg 300

agcccagagc tcaagttcca taacgcactg aacgaacttg ggaagatgga gggtttcacct 360  
gaacggaaca 370

<210> 28974  
<211> 317  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-010-Q1-K1-F12  
  
<400> 28974

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cttcagggaa ggcaagggtg gggactggga aaaccacatg accaaagagc aaggacagag 180  
gttgatgac gttttggagg acaagcttaa gggatctggt ctctgtttt gattaattca 240  
tatagcatgt tgcattcat gaataatcat tcgcttacac atgtagtggg attttaatgt 300  
attgatctt ttttttt 317

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<223> unsure at all n locations  
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<400> 28975

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tttggtgggc aggagcctgg taccaatgag gagattgtcc agtttgctg cacacgcttc 180  
aaggctgagt acccatctt cgacaagggt gatgtcaacg gtagcaatgc tgcgccatc 240  
tacaagttct tgaaatctag caaagggtggc cttttcggcg acagcatcaa gtggaacttt 300  
tccaagttct tggttgacaa gganggacgt gttgtggatc gctatgctnc aaccacttca 360  
cccctgagca ttgaaaagga tatcaagaag ctgcttgtga gctcttaatc agtatctggg 420  
tgcaaaagct gtagaaaaac atgtattaac aat 453



<210> 28976  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C1

<400> 28976

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cacaattggg gttgatttta aaattcggac agtagagcaa gatgggaaga ccataaaact 120
tcaaatttgg gatactgctg ggcaagagcg cttcaggacc atcactagca gctactaccg 180
tggagctcat ggaatcatta ttgtatatga cgtgacagac caagaaagct tcaataatgt 240
gaagcaatgg ttaaatgaaa ttgatcgta tgcaagtgc aatgttaaca agctccttgt 300
tgggaacaag agcgacctaa ctgccaacaa agttgtggca actgagacag caaaagcatt 360
tgctgatgag atgggcatcc cgttcatgga gacgagtgcc aaaaacgcca ccaacgtgga 420
ac 422
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<210> 28977  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C10

<400> 28977

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acgaagcaga cggcgcgcaa gtccacgggc ggcaaggccc cgaggaagca gctggcgacc 180
aaagcggcgc gcaagtcggc cctgcgacc ggcgggcgtga agaagccgca ccgcttcgcg 240
ccgggcaccg tggcgctgcg cgagatccgc aagtaccaga agagcacgga gcttttcac 300
cgcaagctgc ccttcagcg cctggt 326
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<210> 28978  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C11

<400> 28978

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tgctgcatat tctcccggtc cccctccgg agccaccctc ccttctccg ggacctcgag 180  
taactttgga gtaccagtga tgcaaaggga cactagctct agcgatgttt ctgcttctca 240  
tgtagggcgt gtaagacgtc gcaaaccatcc atctgaggct tccacagatg ggaatagagc 300  
taatggacaa ccgttgcttg tcaatgatca gaacaagtat aaatcaatgc ttatccgtac 360  
atattctaca gtatggatga ttggagggtt tgcctttatt atttatgtgg gtcactata 420  
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<210> 28979

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C12

<400> 28979

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tggtttcttcg g 131

<210> 28980

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C2

<400> 28980

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acctaccgc agcaggctgg caccgtccgt aagaacggct tcatcgtcat caagaaccgt 180  
ccctgcaagg ttgtggaggt ttctacctgc aagactggta agcatggcca cgccaaatgc 240  
cactttgtcg ccatagacat attcaatggg aaaaagcttg aagatattgc tccttcatca 300

cacaactgtg acattccgca tgtgaaccgt actgagtatc agctgattga tattttctgag 360  
gat 363

<210> 28981  
<211> 440  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-010-Q1-K1-C3  
  
<400> 28981

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ggcttacaaa agggaaattg cagagaaaag cgaggaatga taacttgga cggaggacaa 180  
ggccgtatag gctcttaatc tgtgatgacc tgcccttgat tttgtgaagg atctgtcgag 240  
tgtttttgaa tataatgttt ctaaaaaata ttatactctt ttcctagtag cagctaaact 300  
ttaacagctt aaatcttctt ccatgactac cgaatatgtt tccaatttgt tcatgcatgc 360  
gtgcaggagt cctttgtatc aaatttggac aaccactct tgttgccctag tataagcagt 420  
ttattggcca gttcctttta 440

<210> 28982  
<211> 400  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-010-Q1-K1-C4  
  
<400> 28982

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ccaaaaccag aacccaaacc tacaccacag ccagacccaa aaccttcacc acaaccaggc 180  
ccagagccga aaccgaagcc agcgccacag cctgaaccaa aaccagaacc caaacctaca 240  
ccacaaccag acccaaaacc tggaccacaa ccagacccaa aaccagaacc caaacctaca 300  
ccacaaccag gccagagcc gaaaccaag ccagcgccac agcctgaacc aaaaccaca 360  
ctgcaaccag atccgaaacc tgagccaaaa ccaacaccac 400

<210> 28983  
 <211> 129  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-C5  
  
 <400> 28983  
  
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 agagcaatta agagaaaagc attcttatga atacagcctt aaattcaatt aaatgcaaca 120  
 aggcttaca 129

<210> 28984  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-C6  
  
 <400> 28984  
  
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 cactgccatg ttcaggagga aggccttctt gcattggtac acgggtgagg gcatggatga 180  
 gatggagttc actgaggcag agagtaacat gaatgacctg gtggccgagt accagcagta 240  
 ccaagacgcc acagctgagg atgaggagga gtacgaggag gaagaagagg aagatcctgc 300  
 tgccctaagcc atcatcccaa gtgcttggtg aagatatgat gtcccttgta tcgctgctag 360  
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 ttatgaatgc gatgttgctg tgacagaact 450

<210> 28985  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-C7  
  
 <400> 28985  
  
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cgccggagaa gatgggtcgc gtgatccgcg cgcagcgtaa ggggtgcgggg tccgtgttca 120  
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 gcaacgggta cctcaagggc gtcgtcaccg acgtcattca cgaccccggc cgtggcgcg 240  
 cgctcgccaa ggtcactttc cgccacccat tcaggtacaa gcaccagaag gagctctttg 300  
 tcgcagccga aggcatgtac acgggccagt tcgtctactg cggtcgccgc gccaccctct 360  
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<210> 28986

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-010-Q1-K1-C9

<400> 28986

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 tattagtgcg aaggtaaaac tattccttta ttgttaatta ttttctatat gcatgatggc 180  
 agtaactaaa atattggatt gtgttggaca tacaacaagt tctagaagcc attagctaac 240  
 cacataatca ctgaccttaa cccagtgacc atttaacaac gtatataata taaatttaca 300  
 ttagatgctt tatttttgca ctgtagacct attgcacata taagtgtccc ttagaactta 360  
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<210> 28987

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D1

<400> 28987

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 ccgcagcgca tcgcgcggga ggtggccacg gacagcatcg cgcgcgccgc gtcagcggc 180

tcggacagcc ggagcatccg gaagaggacg tcgcggcggc tcacgcagag cccccgctcg 240  
 tcgtcggtga ccagggccccg tggcggcggc ggcggctgtt caccacacc aagaaacacc 300  
 tctcgctgtc gttgaccaga agaaccaact gcgtgattcg cgttgctctt tggagactgg 360  
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<210> 28988

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D10

<400> 28988

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 ccaaggtgcg ccaggcgtcc aaagtcgtac cggtaagcgg ggcccggcaa agccgcggcg 180  
 gcggcttcgc cgtgcggggc tctctgttct cgcccaagcc cgcggcggcc aaagacgcgc 240  
 ggtcgaccaa ggtgcatgag ctgtacgtgt acgagatcaa cgagcggcac cgcaagagcc 300  
 ccgcgtacct gctcctcatc gccaaacaga cggaaaacgc gctgggcgac ctgcctctct 360  
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<210> 28989

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-D11

<400> 28989

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 gcattcaaag gttctgcgcc tctgaacctt tccgaccgtc ttcaccaggt ccttcgctgg 180  
 gcccttgggt ctgtcgaaat tttcttcagc aagcactgcc cactttggta cggatacggc 240  
 ggcggggctaa aattcctgga aagggtttct tacattaact ccatcgttta tccctggacg 300  
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atcaca 366

<210> 28990  
<211> 310  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-010-Q1-K1-D12  
  
<400> 28990

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cggcgcgcgg gcgcaacatc acggccatcc tcgccgggta caaggagtac aagctttaca 180  
accagtacct gtcggagaca aaggtgtgcg acaagatcaa ctgcggaag tcaacttcaa 240  
taaccgtcct gtggctgtcc aacgacccct tgacaaccct ggcttccaaa gccgggaatt 300  
ggtttccgcg 310

<210> 28991  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-010-Q1-K1-D2  
  
<400> 28991

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<210> 28992  
<211> 396  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-010-Q1-K1-D3  
  
<400> 28992

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agagctccaa tggcacgaac ggaggcttgg tgaagcccct gcctgctgtg aacgagaagg 180  
tgaaaagggt gatgttctac tgctgacaag gtgaccactt taacaaccat tcacatgctg 240

tagctaactt ggtaggttc agtaggggga ttagattagc tttctacagg aacgaagagg 300  
 aaacgggatg cgtatttggg tcatgaacaa tcaatctgat agcgatcgct gtagaatact 360  
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<210> 28993

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B9

<400> 28993

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 gcaacctgag catgtgatga tgtttttact tgctgaaatg ggaacaagcg ggtcacttga 180  
 tgggcagcaa aggttggatg tcaaaggaag atttgcccc aaaaactttg aagcaatcct 240  
 gaggagatac atcaatgagt acgtcatctg caatggatgc aagagccctg ataccattct 300  
 gtccaaggaa aatcgctctg tcttcctttg ctgcgaacag tgtggatctt caaggtccgt 360  
 tgctccaatc aaagctggat tcgttgcctc agtcggctcg cggaaggcat gagcatctat 420  
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<210> 28994

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A1

<400> 28994

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 atggttcatc agactcatgc atcaaccagc atggactgta tgatcgatgg aagctgttac 180  
 tcctgtcatg atttgttcta agttaatcct aaggaaaaaa ttgagctatt aggtgctgca 240  
 aaacatacat acaacggcag t 261

<210> 28995



<211> 462  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-A2  
  
 <400> 28995  
  
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 gggatcagag cagcatatct tgtttccaga ttaatatgtc gagcaccaga ctttgtctca 240  
 gtcaatgcag cagggaacct ttaccacct gaatcattgg aagtcactctg taactccttg 300  
 aagcaaggga cttgtaattt ggagcgagtg gacctgactg gcaacatgca tttatcaagc 360  
 aatatttttc ctgcattcct tgaattcaag aagcatggaa agccaattct ggtagtacca 420  
 ccaaacttga gcacttttgc tccatatgat gatgacccat ga 462

<210> 28996  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-010-Q1-K1-A3  
  
 <400> 28996  
  
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 aatgttgatg accgtaaaaa atctgggggt caggcattgc aaataagatc ttgctcccag 180  
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 atgcgagctt tgctgcggat caattctgga aaatccttca agtgggagag gctggattac 360  
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<210> 28997  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-010-Q1-K1-A4

<400> 28997

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attcatgaag tatcttcata ctgatcttgg tgtcgaattt cctgaaagat cttatggaac 180  
tgattgtcgc atatatgtcc ctgatcatcc aaaaagcagg ttaacaatg tttatgagat 240  
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<210> 28998  
<211> 428  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-010-Q1-K1-A5

<400> 28998

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gtcgtgaac gccgactacg ggctggattt gggcacgctc agaggaaccg tcaacaacgc 360  
ctgccggatt atcgaagtgc gganggactt gggctcgtg gacaagtacg tgtgggcgtt 420  
cgggaaca 428

<210> 28999  
<211> 462  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-A6

<400> 28999

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 ggaccccggc ggccggcctc ctgtctctgt tgctctctcc gtcgcgggcc accccgtcac 180  
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 acgtataccc caccggccac tactatgtca cgatgaacat tgggaaccca gcgaagccct 300  
 acttcttgga cgtggacact ggcagcgatc tcacctggct gcagtgcgac gcaccctgtc 360  
 ggagttgcaa caaggtgcc aatcccttgt atcgaccaac ggcaaaccgc cttgtaccgt 420  
 gtgcaaacgc actctgcact gcactttaca acggacaggg ct 462

<210> 29000  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-010-Q1-K1-A7  
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 gagaagaagg caatggcggc cgagagcttc cttttcacct cggagtccgt gaacgagggg 180  
 cccccgaca agctgtgcga ccaggtgtcg gacgccgtgc ttgacgcatg cctcgcgcag 240  
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 ggcgagatca cgaccaaggc gaccgtggac tacgagaaga tcgtgcgcga cacctgccgc 360  
 gagatcgggt tcacctgcga cgacgtgggc ctcgacgccg accgctgcaa ggtgctgggtg 420  
 aaca 424

<210> 29001  
 <211> 226  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-010-Q1-K1-A9  
 <400> 29001

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tgccctctt gtgcacctgt ccgcgcttcc agaaggcacc gttgtggact cgagatagcg 120  
acctctactc ggaatttact ttcagctctt gcatgtttgt ggttgtggcc atcatgtact 180  
gattttccct tttcaacagt tgctgtgagg ctgtatcgtc tggagt 226

<210> 29002

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B1

<400> 29002

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tgaaaatcca gaggcagaag aaactaacac tgctgcagag gaaacacctg ctgtagagga 180  
agcaagtgag actaccgagg aggaagaggc tgagaaacct gagatcaaga tcgaaacagc 240  
tccagcagat tttcgtttcc caacaacaaa ccaaacaagg cattgtttca cacgctatgt 300  
tgaatatcac aggtgtgtgg ctgcaaaagg tgaagatgca cctgagtgtg ataagttcgc 360  
caagtactat cgatccctgt gcccggtga atgggttgat cgcttgaacg agcaacgcga 420  
aaacggcacc tttcctggac cttttgtatc ctacaat 457

<210> 29003

<211> 52

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-010-Q1-K1-B10

<400> 29003

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<210> 29004

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-010-Q1-K1-B11

<400> 29004

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ggagagcgcc aagaaggcgc tggactgggc catcgacaac ctgctccacc acggggacac 180

cctcgctgtc gtccacgtcc tgcaccaagg cgcgaggag accaagcaca cgctctgggc 240

caagtccgga tccccgtga tccactctc cgagttccgg gagcccagg tgatgcangg 300

ctacggcggtg cgcggcgacg ccgaggtgct cgacgcgatc gacacggcag cgcgccagaa 360

gcagcttgag gtggt 375

<210> 29005

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 29005

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agctggactt cgagttcctc gggaacgtgc gcggcaagga gtggcgcgtg cagaccaacg 180

tgtacggcaa cggcagcacg gcggccggcc gggaggagcg ctacggcctc tggttcgacc 240

caaccgagga cttccaccgc tacgccatcc actggaccgg cgacaggatc atattctaca 300

tcgacgacac gccgatcagg gagatggtgc ggacggagtc catgggcgcg cagttcccg 360

ccaagcccat gtcgctgtac gccaccatct gggacggctc cagctggggc acctcgngng 420

gccgctacaa ggtggactac aagtacgcgc nctacg 456

<210> 29006

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-B3

<400> 29006

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 ggggtgcatc cttagtttgg ctctatgttg taccacctac tgcaaataac ttgctaccat 180  
 atgctacggc ccacatcatt atctggcaga ccatgcaaaa tatctacttg aaggtatcga 240  
 tctgcacaaa tgaatcttct ttcttggcat aggtgtgttg tgaaatctta tgctcttatg 300  
 agttaatgta aaacgtgtcg tgattatcaa ggctgttgag cttattttct atatgattgt 360  
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 aatgctgagt tctagagcaa ttgtggactg tgtttgtaaa tggaggcaga tgctagcggt 180  
 gatcattttt cactgtacgt ttcttctctc tgggttggtg tacgtgctct gctgcaattt 240  
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 aaaaaaaaaa aaaattatta aaataataaa agatgtaaaa cttaataac 349

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-010-Q1-K1-B5  
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 aaaaaaaaaa aaaaaaaaga aaatataaaa taaaaaaaaa aaaaaaaaga aaagataaaa 180  
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241

<210> 29009  
<211> 173  
<212> DNA  
<213> Zea mays

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<400> 29009

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atattggtga ctgcattggt ctttcacttt aaaatcgggtg actgcattga tcg 173

<210> 29010  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H9

<400> 29010

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ctgatcgatg caatgcaacc acgccactct gcaccgcaac aaattttcca acacacataa 180  
atataccaag caattcccat ctgtcaaatt ttcttatttc cctgccatga ttttgggtctc 240  
tatttttctt gctggctact acttatcttc cagcactagt aatgtacgta ctggctagta 300  
actaggggat ccagtgggaa gacgtgtagc ctttagttgt acatgcatgt atgatgctgt 360  
gtagcaccgt atcatgcaca ccaaaccaat gcatatgagt tataaatgtt ttt 413

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<212> DNA  
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<223> unsure at all n locations

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 aacccttctc tttgggtgaga aggaggttgc tgtgtttggc tgcaggaacc ctgaggagat 180  
 cccgtgggggt tccggttggtg ctgaatatgt tgttgagtct actggtgttt tcaactgacca 240  
 ggagaaggct gcagctcact agaaagggtg tgccaagaag gttgtcatct ctgctcctag 300  
 caaggatgcc cccatgtttg tccgtgggtg caacgagaaa gagtacaagt ctgacattaa 360  
 cattgtctnc aatgctagct gcacaaccaa ctgccttgct cctcttgcta aggtcatcaa 420  
 tgacaagtgc ggtat 435

<210> 29012  
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 <212> DNA  
 <213> Zea mays  
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 tttttcaatc tcatccaatc catgtgtatt gggaataacc gaacaaggcc ttagatgtct 180  
 cgtgagcatg gatcggctat ggtgattagc atgaatgtgt tgtggtaact agttggaaga 240  
 ctaaatttcc tgacgtttgg atgtttgcaa ctgctatgta ctataaagac tcctcgtgcc 300  
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<210> 29013  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-005-Q1-K1-A12  
 <400> 29013

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 gagctaaccg aacaagcccg taatgtattc cttggtttct gctttcccg acgcgtgtgt 180



gcggaagcca aactggatga ggcacttcaa attgatccca acacgtccga tgcactctgg 240  
 tgcttgggaa atgctcagac ctctcatgga ttcttcactc cagacaatgc aatagctaata 300  
 gagttcttta caaaggcaac cggatgtttt cagaatgctg ttgatgtgga acctgcaaata 360  
 gagctgttca ggacgtcttt agacttgcaa atgaatgcac ctgaactgca tttggatatc 420  
 caaaagcaaa t 431

<210> 29014  
 <211> 233  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-016-Q1-K1-F10  
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 ggggggtatct cagccccaag caaagatgca cccatgttgg ttgttggagt caatgaaggc 120  
 aagtgcacct tggatgtgaa cattggttcc aatgctagtc gcaccacaaa ctggcttgcct 180  
 ccacttgcta aggtcattca tgacaacttt ggcattattg agggcctgat gac 233

<210> 29015  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-046-Q1-K1-A9  
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 tcttgatggt ggccctgatg ccacacaaac attcaacgaa gcattggaca ccaccaagac 180  
 tgttatttgg aacggcccca tgggagtgtt tgagttcgag aagtttgcag ctggcactga 240  
 ggcgattgcc aagaagctag ctgagcttac aaccacgaag ggtgtcacta ccatcatcgg 300  
 cggcggcgac tctgttgctg ctgtcgagaa ggctgggctg gccgacaaga tgagccacat 360  
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 <213> Zea mays  
  
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 gaaggcgaag gcaaaggggg tttctctttt gcttccact gatattgtag tagcggacaa 180  
 gtttgcagct gatgctgaga gcaagattgt ccctgccact gctatccctg atgactggat 240  
 ggggtcttgat gttggccctg atgccaccaa aacattcaac gaagcattgg acaccaccaa 300  
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<210> 29017  
 <211> 137  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-004-Q1-K1-A5  
  
 <400> 29017  
  
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 ctgatggcca atgattg 137

<210> 29018  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ttccagggtc tcaagtccgc cgtcagcctc cccgtcgccc gccgcagcac caggagcctc 180

ggcaacgtca gcaacggcgg aaggatccgg tgcattgcagg tgtggccggc ctacggcaac 240  
aagaagttcg agacgctgtc gtacctgccg tcgctgtcga cggacgacct gctgaagcag 300  
gtggactacc tgctgcgcaa cggctggata ccctgcctcg agttcagcaa ggctcgggttc 360  
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<210> 29019

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 29019

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ttccagggtc tcaagtccgc cggcagcctc cccgtcgccc gccgcagcac caggagcctc 180  
ggcaacgtca gcaacggcgg aaggatccgg tgcattgcagg tgtggccggc ctacggcaac 240  
aagaagttcg agacgctgtc gtacctgccg ccgctgtcga cggacgacct gctgaagcag 300  
gtggactacc tgctgcgcaa cggctggata ccctgcctcg agttcagcaa gctcgggttc 360  
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<210> 29020

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F10

<400> 29020

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ccgttcctgg ggactcatat caatatatct gttatgtagc tcatccataa gacctatacg 180  
acgaggggtc tgatactaac atgtttaatt acattgagcg taacgtgttc gacgtcaaag 240  
ccttacgcgc tatacatacg taggatctac taatttccac tgcttattca aaatctttgc 300

aagcttcaat ctacacggtg tccaagttag aaacgcttaa cttgaacaag taccgttggt 360  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-035-Q1-K1-H12  
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 gctggcgacg caggtgctca tcccggctgc ggcggccgtg ggcacgcgt tcgcggtggt 180  
 gcagtgggtg ctggtctcca aggtgccgt gatcgcgtcg ggggtgtggt tcgcgtcggc 240  
 gcagggcgag gagtgcgcgc gcctggcgcg gtggcccggt gccatcctgg gcgggctgct 300  
 cctgctggcc gcgctggcgg gcttctgtgg cgcgactgg aaccggcgcg gcctgctggc 360  
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<210> 29022  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-034-Q1-K1-B4  
 <400> 29022

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 ggctgctctt ggaatgctga gtaccattgc cacaggcctt gctattgatg cctatggccc 360  
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<210> 29023  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-010-Q1-K1-A11  
  
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tgggtctctgg gctggcttag tcattggttt tattactgag tactacacaa gcaatgccta  180
cagccctgta taagatgttg ctgattcctg cagaactgga gctgccacta atgtcatttt  240
tgggcttgct ctgggttaca aatcagtcac tatcccaatt ttgctattg cgtntagtat  300
cttccttagc ttcagccttg ctgccatgta tgggtgtgtt gtggctgctc ttggaatgct  360
gagtaccatt gccacaggcc ttgctattga tgcctatggg cctatcagtg ataatgctgg  420
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-058-Q1-K1-C8  
  
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ttatgactgc tctgccactc tcctatgggt cggagagcgc actcgccagc ttgatggtgc  240
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ggaccagca gaacttgtgc ggttgattga tatattgaat cccgaaaaca gggctgggag  360
aataaccatc atcacaagaa tgggacctga aaacatgagg gtgaaacttc cacacctgat  420
acgcgctgtc ccgtgggccg gtcagatagg tacatgggtt actgacccaa tg           472
  
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 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-C5

<400> 29025

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agtgtgagat gtttccgctg aaccttgccc tacaagagcc cattggctct gctagcagtg 180
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-D11

<400> 29026

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gaccagtttc ggtcccgagc tgccgcctg cctccgatgc cgcctcgtca agacctacga 180
ccagttcagg gagaacggct gcgaaaactg cccgtttcta gagatggaca gagagcacga 240
caacgtcgtc aactgcacca cccccaactt cactggaatt atctctctga tggaccccag 300
taggagctgg gcagcccgtt ggttgagaat tggcaggttc attcctgggt gctatacact 360
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gtatgtgccg tccaagcgtg tc 442
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 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-G12

<400> 29027

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tcttcaagta cttcgagaac tggtgccagg acgagaacag gcacggcgac ttcttctctg 360  
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<210> 29028

<211> 231

<212> DNA

<213> Zea mays

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gtggtggtgt gcttttgcct ttgtgtggtc gtattgtatg cgtaacctga cagatggatc 180  
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<210> 29029

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B12

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tcattctcac cacaaccctt tcctcccttc ctctcaatgc ccctccctgc aagacttccg 180  
aggtatggcg ccaatgctgc ggaagcgccc gacgatgtac tgccggcgcg acgacgtcgg 240

cgctcggaggc gaggaggcga actgcggcgc gacgaacgag gacgaggtgt cggacgacgg 300  
ctccctgcaa gccggcgggc ccggggagaa gaagcggcgg ctgaacgtgg agcaagtgcg 360  
gacgctggag aagaacttcg agctcgggaa caagctggaa ccggagcgca agctgcaact 420  
ggcgcgcgcg cttggc 436

<210> 29030  
<211> 453  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-039-Q1-K1-E6  
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tgagcgagaa cagcagctgt gcttaggccca gggcagggaa ctgagcctgg tcttcgatcg 180  
ctggagcagc agctgggtccc cgataaccgc cgtttgaacc accacggaac ccccccacggc 240  
ccctaccacg gccacggcca ctagggttat agtacctttc gccttcagct ggctttaaga 300  
actcgttgat gtcctatggac ttcttgcccc gttcttctct ttcagcactt tctttctttt 360  
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<210> 29031  
<211> 395  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-006-Q1-K1-B4  
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atatgtccgg ttaaaatcca aacttgatgc acttcagaag agtcaaaggc agctgttagg 180  
agaacaattg agttcactga ccataaaaga actccagcaa ctggagcaac aactggacag 240  
ttctttgaag catattaggt caagaaagaa tcagctcatg ttcgattcaa tttccgcgct 300



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atataaggag aaaaacatgg ctttgatgaa cgcg 395

<210> 29032  
<211> 345  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-F7

<400> 29032

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acaattgagt tctactgacca taaaagaact ccagcaactg gagcaacaac tggacagttc 240  
tttgaagcat attaggtcaa gaaagaatca gctcatgttc gattcaattt ccgcgcttca 300  
gaaaaaggag aaagcactta cagatcaaaa cgggtggtctg caaaa 345

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<223> Clone ID: LIB3067-037-Q1-K1-G10

<400> 29033

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tgggcaaggt gaagattgtg gcatgtgatt ccaaattgct cggacaatag gcctgtgtac 240  
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ctgtacacgc ctaggctacc tgccgaggcg gtgtctgtct gcttcagctg tacacgccta 360  
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 <213> Zea mays  
  
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 ggtcacctgc acacctacag gttctgtgac aacgtgtgga ccttcattctt gacagacgca 180  
 agcttcaaga acgaggaggc cacggagcaa gtgggcaagg tgaagattgt ggcattgtgat 240  
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 gcttggt 427

<210> 29036  
 <211> 103  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-009-Q1-K1-G10

<400> 29036

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<210> 29037

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G2

<400> 29037

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acacgccatg gtggagactc gccggagctc cgccgccgcc gccgggaagc gcacgtctcc 180  
atcgccatcc tcttcgtccg tacctcccc cgaagcgcgc aaggcggagt cctcggggtc 240  
accgacggcg tccgcgcccc gcagggccga ggaggattct gtggcgggag cggcaccgcg 300  
gaggagcgcc ggctcggtcg atgacgcggc agcgatcgca cagaaagatc aaagagtcga 360  
taagccgtct tccgctgttg cagatagttc aaagc 395

<210> 29038

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G3

<400> 29038

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ggccgtgttt acaaagccaa attcggatgat cagaagggtc tggctgtaaa gaaaataaac 180  
ttctctgtat ttccaagcca tccttcagat ttgttcattg agttgggttc aaacatttca 240  
atgttaaatac atccaaacct tgctgagctt gctgggttact gttcagagca tggacaatgc 300  
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gaacacagca agccattgtc ttggaacaac cgtgtcaaga ttg 403

<210> 29039  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-009-Q1-K1-G4  
  
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acacgccatg gtggagactc gccggagctc cgccgccgcc gccgggaagc gcacgtctcc  180
atcgccatcc tcttcgtccg tacctcccc gaagcgcccc aaggcggagt cctcggggtc  240
accgacggcg tccgcgcccc gcagggccga ggaggattct gtggcgggag cggcaccgcg  300
gaggagcgcc ggctcggtcg atgacgcggc agcgatcgca cagaaagatc aaggagtcga  360
taagccgtct tccgctgttg cataaagttc aaagcggaag aaggag                    406
  
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<210> 29040  
 <211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-009-Q1-K1-G5  
  
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gttcgatggt cctagcttcg tatctgaagg cagcaacatt ttcaagacca ggattgaagg  180
tgcaaacatc gctgatacag ggcttacaga taaggatgac ttaattgtca ttcattcgga  240
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ctggttggag ggatcttata agaagtctac cggcaaaacta gtcattccct tggagaatgg  360
aaacagtctt actttgcaac ttga                    384
  
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<210> 29041  
 <211> 383  
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<223> Clone ID: LIB3067-009-Q1-K1-G6

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agtgcctccg cettaccgtc cccgctgatg cagctgccgt cgacgttcgc ggagctcgtc 180  
aagggcccct ccggcctcca gaaggatcatg ctctgcagcg ctgcgcaactg ctgtgcccag 240  
atgtatcttt atggaggtca agtaacatca tggaagaatg acaatgggga agacttgcta 300  
tttctcagta gcaaggctat tttcaaacct tcaaaagcta atgctggtgg tttaccaatc 360  
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<210> 29042

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G7

<400> 29042

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gctgtgctga acagcaggaa gacgccgcag gtggtggccg tgctggtggt ggaggcgctg 180  
ctggcttcgt ccgcgtcggc ggcgatcacc tgcgggcagg tggggtcgtc gctagcgccg 240  
tgcacccctt actcgactgt gagggccagc tcgctaccct cgacgtgctg cagcggcgctc 300  
aagagcct 308

<210> 29043

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G8

<400> 29043

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 tttttacgtg tgggtatattt tttgattcat tgcttacttt taatttttta ttaattgtct 240  
 ttaattttat tgaatctata tttctttttt aatcttttgt tgttttattat ttagtttgta 300  
 cttttttaat cttttttagt aatatttata ttttatcttt tttgtttttt tagttatttt 360  
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<210> 29044

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G9

<400> 29044

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 ggctcaagca gccactctac cgtcacccat gggaggatgt actgtacacc aagtgagaaa 180  
 gccattcttt gcaaggcata ataaagtatt attatcgctt agagcttcca gttgcctagc 240  
 ttccagttgc ctgtacactt cattaaatcg agcacttgca aaatagaaaag ccagagagag 300  
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<210> 29045

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H1

<400> 29045

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 gcagggccaa atcgaacttg atagtgtggt ctatatattta gttaaagagg gctcatccaa 180  
 aatttcagtt gatggtgtat tcgctgtggt tgatgttttag gatcatgaat ggagacatgc 240  
 tattactgca gctggatctg gatgcatagc tgttttgaca gttgaaagat acttagatgc 300  
 ctattatct 309

<210> 29046  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-009-Q1-K1-H10  
  
 <400> 29046  
  
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 aaggataaat aaaaacaatg cgtattacca tgaa 94  
  
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 <211> 226  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-009-Q1-K1-H11  
  
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 gcgctatggc ctagactgat gtgctcaagg ttgtcatgtc ctgtgagggc tgagtctgag 180  
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 <211> 249  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-009-Q1-K1-H12  
  
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 aacctcctct tcttcgcctt cgccgacgca tgcggctgca ggtgcggcgg atcctgcctc 180  
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<210> 29049  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H2

<400> 29049

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cccgccggcg agtacgggta ctccgagacc gaggtgggtca ccgccaccgg cgagggagcg 180  
tacgagaggt acaagaagga ggagaaggag cacaagcaca agcagcacct cggcgaggcc 240  
ggcgccatcg ccggcgggcg cttcgcactc tacgagaagc acgaggcgaa gaaggacccc 300  
gagcacgcgc acaggcacia gatcacggag gaggtcgctg ccgctgcggc cgtcgggccc 360  
tgcggtacg tattccacga gcaccacgag aag 393

<210> 29050  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H4

<400> 29050

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caagggacag gatggcaatg aggtgttctt tcgcataaag aggtccacc agctgaagaa 180  
gctgatgaac gcttattgtg accgccagtc tgtggacatg aatgccattg cgttcctgtt 240  
tgatggccgc aggcttcgcg gcgagcagac cctgatgag ctggagatgg aggacggcga 300  
cgagatcgat gccatgcttc accagaccgg aggcagcggt cctagcacca cctaaaagca 360  
tcagtcggcg agcttcgttt tgctctccgt cctgcgtagt agtaaacaaa aaggaaaaag 420  
tctttt 426

<210> 29051  
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<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3067-009-Q1-K1-H5

<400> 29051

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ggggaagggtc aagaagtacc gccagggtcat attgacagat gacatagaag aggtggggaa 240  
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<210> 29052

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H7

<400> 29052

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actcagatga gaagtgtaac gagtttgcct ctgctgagtc ggaggactcg gtgtcaggtg 240  
ttctatatga tatgtggcaa aaggagggtca tttctctaag gaaggcgtgc cacgaaaagg 300  
atcagagcct gaaagacaag gacgacgcaa ttgagatggt ggcaaagaaa gtagatactt 360  
tgacaaaagc tttggaatca gatgccaaga 390

<210> 29053

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-G1

<400> 29053

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accccaactg acctcatttt ttaaagccaa gtacacccaaa agacaaaaaa aaaaggctga 240  
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 aatcagaaga gctattggaa cgatgccttg cagtcaagaa aaagattcta cctgaagatc 240  
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 aggatcggga tgtaaacagc gatgtaactg catattacct cgcaaaagca aaacagttca 360  
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 aaat 424

<210> 29055  
 <211> 408  
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 <213> Zea mays  
  
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 aagcgcgagc tcgtcttcaa ggaagacggg caggagtacg cgcaggtgac ccggatgctc 180  
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 ggtaagatgc acaagaaggt ctggatcgcg gctggggaca tcgttctcgt cggccttcgc 300  
 gactaccagg acgacaaggc cgacgttatc cttaagtaca tgaacgacga ggcgcgctcg 360

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408

<210> 29056

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D5

<400> 29056

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ttttatatta tcagaggaag acaaatacatc tgagcctagt cttgaatact ggtttaagtg 180  
catcgatctt gatggtaatg gtattttaac ttacaatgaa atgcattttt tctatgatga 240  
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<210> 29057

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D6

<400> 29057

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ctcatagctt acgactccga ggcacgcgatg atccgctggca agaaggctaa agacaacttc 180  
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aaagccccta atatggactt tgatgatgag aagcctatca tcaatctggc ttgtaacaat 300  
ttgaccaact tatacgcat attacttacc cttctctgat atgccattat aacatctttc 360

<210> 29058

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D7

<400> 29058

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<210> 29059

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-D8

<400> 29059

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gcagagaata ccggggcccat taagtcagct acacaggact ctaaagggtga agatcatgat 180

ataatgagct ttgggtactgg gaaatgcgcg tttgccaaagc gcctatatca tgaataggac 240

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aatagaccgt ccc 313

<210> 29060

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E12

<400> 29060

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aag 63

<210> 29061

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E2

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gcgtctgccc ccagccacca ccgcttccgt tgcttttagct ctgtttctccc gccaagaagg 120

cgaaggggag acggttggtt gagttgagggc agccagccag caagccagtg gcggggcgctc 180  
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 ggacgagaac gtggtgtacg tgggtggtgga cgggcagggc ggcggcggtg gagggggatt 300  
 gggaggggac ggccgtggcg cggcggtgga gcgacgggtg gccgtctccc tcttctcgca 360  
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<210> 29062

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E6

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 cccagatccc cttgctgatt caatgcagaa ccccagacag ccagtacgcc agcctctgct 180  
 ttcagctgct gtgctatatg gatctggccg tatgtcaagc gcaattagca ccaccatgac 240  
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<210> 29063

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E7

<400> 29063

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 aatatgattg gtggactgcg attaaattgc gtacatgatg catcagttct atgcatgctc 240  
 gctgctgtct gttcggagggt catcaactcg ggacctggac taagggcctt gtcgttcgct 300  
 caacccttat gaaaaagttt ggctttctaa agatgtagta gaagtactca tttattccct 360  
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<223> Clone ID: LIB3067-009-Q1-K1-F10

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 catgcactat gggttatacg ttgtccatga attcccatgt ttcgctgaaa ataaagaaga 180  
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aaccttttgc agtactagca acacgcagaa gattagtacc gggaaatgcg 110

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atgaa 425

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<213> Zea mays  
  
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 aggetgtgga actggcagca tggccccata agcgttgctc gatctcctca tcgctactgg 300  
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acggcgctctc ctgggcgcga gagctcgact acttcgccgc ccgccctttc ctcggaaga 180  
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<210> 29075

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-F8

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cagggtggtc acctgtaata acctctcctt catctccgag attccttcct ttcattctct 360  
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<210> 29076

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B2

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taactccaag atcctatcca aggtaatcga gtactgcaac aagcacgtac atgccgccgc 180  
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caccgccgtc tgcggtgagg acctcaagaa ctgggatgcg gacttcgtca aggtcgacca 300  
 ggccacgctt ttcgacctca tcttggtgc aaactatctg aacatcaagg gtctactoga 360  
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<210> 29077  
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 ggggggat 68

<210> 29078  
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<210> 29079  
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<210> 29080

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<212> DNA

<213> Zea mays

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ccgggtcggt tcttctgtca gagaacgggt gccagcgcag tcgaactggt gggctcagcg 180

ttctgctagc aggcccccgc gcccggtgtc tgggtggctg tgttgccgga ctctgacgg 240

ctgcttcacc ggtacaggtc tgcgtgctgc ctctggatcc tgcgtggctga aaaatcacta 300

ccttctcggt tccattcatt tcgtcgtggt agcgtaaatt acagagcggt gtcggtcgtc 360

gactgtatct ccagatttcc tcgtcgacgc cactcaattg cc 402

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<212> DNA

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cagggctggt actggcgctc taggtagatc aaacaagatc gtggctgagc cactcacaag 240

agatcataat gcaagtaggg aggaggtcag gcaggagctt atatcccgct atccagatga 300

ttctcaaatt gtggttctca agcatggtgt ttggcgcatc aagggcataa ttcaggtttc 360

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<210> 29085

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<212> DNA

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<223> Clone ID: LIB3067-009-Q1-K1-C2

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<210> 29086

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<212> DNA

<213> Zea mays

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 gacgcgcgca ggttcaacct ggtggacccg ccagccgca acaccatcgg agtgcccgtc 300  
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 attaggaaag ccggaagagc cttttgaact cttttttttg ctaacagtgg tgttattgtg 180  
 aaacagagtt ttgtgtgtat gtaccaacaa ctaaaatgta aacacgacat tatcatagtt 240

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-008-Q1-K1-H6  
  
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gccgaggagg aagcgagcgc gcgaaagtat caggaggagg catgggtacc ctggggcgcg 120  
cgatcttcac ggtgggcaag tggatccggg gcacggggca ggccatggac cgtctcggat 180  
ccaccatcca gggcggcctt cgcgtcgagg aacaggtttc aaggcatcgt acaatcatga 240  
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<213> Zea mays  
  
<223> Clone ID: LIB3067-008-Q1-K1-H7  
  
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ggcgagaagg gcgtgggcaa gtccgggaag ccgctccact acaagggtc caccttccac 180  
cgcgtcatcc ccgagttcat gtgccagggc ggcgacttca cccgcggcaa cggcacccggc 240  
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cccgggtgtgc tct 313

<210> 29099  
<211> 446  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H8

<400> 29099

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cagaagttca ggaaccttca gttcatcctt ggggaggtct ttcgacaaca aaggatggca 120  
tcctaactct tcttgattgc ttcataaatg caaaatctct tcatgtgatc cagaatgtat 180  
ttgacaatgc acgtgcgaga gaacgtgaac gtgagatgct ttaccctgat gcatgtggtg 240  
gcggtggcag aggatggatt agcccagtga tacctaacta tggcaggggc catggaacac 300  
gagatacctg tgccttgac actgcacacc tttcttgtga tactctggtg gatttttgggt 360  
cggctctggg tgaagaaact agatcatctc ttttaaggat gaaagaagag gacttcattg 420  
aaagacttat gcacagattc gacagc 446

<210> 29100

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H9

<400> 29100

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ccgctgccga gaaggcgccg gccgggaaga agcccaaggc ggagaagcgt gtcccagcag 180  
gcaagtccgc cggcaaggag ggcggcgagg gaaagagggg ccggaagaag ggcaagaaga 240  
gcgtggagac ctacaagatc tacatcttca aggtgctgaa gcaggtgcac ccggacatcg 300  
gcatctctc taaggccatg tccatcatga actccttcat caacgacatc ttctagaagc 360  
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<210> 29101

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A1

<400> 29101

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gcgatcgccg cagggttcgt ccgagagggg agaggctctc tgtatcgggg catggtgatc 120  
ctggaccgca ctccggccgc ggcgccagggg gccgcctgta gcccgctccc gaagtcgcct 180  
aggttttcgt gggagggtggc ctcgccgccc tcggacccca tctcccgtta cctcaggtct 240  
attagtaggg ccatggatga gtcggaaca gggcctcagt atgacacgac agccttagac 300  
aggctcaagc attacttgac tgaatgcatt gcaaaatatg gtgatgacta ccaatacttc 360  
actgatccat ggttgctcaa gatttggatc ctctatgcag atgcaattga ggacttcccc 420  
agtgtttaca acc 433

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<211> 212  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A10

<400> 29102  
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gtgtgggctc atgttaaggc catgtgggta acctacctta caaagtttgt acatagatac 120  
aagagaagca cgttataacg agcaagagaa cttttacatg aatctgtcca acatgcttct 180  
acataggaaa agaagcccca ttattttaca tg 212

<210> 29103  
<211> 226  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A12

<400> 29103  
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aacgcgggca ttttcaaaaa actaggcagt acacattacg ctaggtggct tcagattatt 120  
caacttgcta cacggttcca attcaattga ttaccataca ctcatcctc gtggcgcacg 180  
ccactcacca tacgcagtgg acaaaccccc acaacttatt accaat 226

<210> 29104  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-009-Q1-K1-A2  
  
 <400> 29104  
  
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 ccggtggggc gacgccgccg coctaagcca ggtgctgagg ctcttggttg tctcttcgcc 120  
 agcgaggagc acccagcagg acaaggcaac aggctggttg aatatggacc aacaaggcat 180  
 gcatgaccat gaaagggtcc acgttggttg atttgaagtc ccgccttcac cggattccag 240  
 ctacgacaac cctgttcctg ggaatgaaga cgaatgccgg gagccccac tgatgccacc 300  
 tcatctgcag cacacgctgc tgagcttacc accaagccaa gaacagtcga gcccgctgcc 360  
 ccagccccag accgtggttc tgaaccaact ttacatcgag atagagaaca 410

<210> 29105  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-009-Q1-K1-A3  
  
 <400> 29105  
  
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 cgagacatgg cggactgggg ccccggtggtg gtgggcgtgg tgctgttcgt gctgctctcg 180  
 ccgggectgc tctgcgagct gccgggcacc caccgccacg tcgacttcgg cggcttcacc 240  
 accaacggca aggccatctt cgtccacacc ctctcttct tcgccgcctt caccatcctc 300  
 acgtcgcgc tccacatcca catctacacc ggctagctag ctagctagtg cggagcacat 360  
 gccgacggtc tggactcgcg gaggtctcag atcagaaagg aacgccggcc g 411

<210> 29106  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-009-Q1-K1-A4

<400> 29106

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ctctcatggc gaccaccagc gccaggagge cgagcggccc ggtgctctcg gccgcgcaact 180  
accgctccgc ctgcgcgacg cgcgtctcgc tcgcggggca gcccgtcagc gtcagcgtgt 240  
cctcgctcgc gcggggccgg cggacctgca tgtgctcgcc gaccaaccac ccgggctcgt 300  
tccgctgcag cctgcacaag gagcgcgtca agccggctgc cgggccccac ggccacgggc 360  
acgggcacgg gcacggcaag ccgagctcgc cggcgtcggc cgtcagcccg ctgtgcg 417

<210> 29107

<211> 404

<212> DNA

<213> Zea mays

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<400> 29107

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cttgcctggc ttgcagctgg catggccatc ggcattgttg gtgatgctgg agtcagggcg 120  
aatgcacaac agccgaagct ttttgtgggc atgacacctca tctcatttt cgcagaagcg 180  
cttgcctctgt acggtctcat tgttgggaatt atcctttcat cccgtgctgg tcaatcccgg 240  
gcagattaag tgcactacca ttctgcaatt accgtactgt ttattatgct attctaagag 300  
aattgaaacc ctatgccctt gtctagttta ttcttgttac catgtattaa tgaaacaatt 360  
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<210> 29108

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A7

<400> 29108

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tacgtccgag tcgtcgcac aggtcccctc gattcgccgg cggcggcgcc accaaccaag 120

ctcatacatc tgaattgact agtccaactc agggatttct ttggggacca atcaaactca 180  
agaactaagt ttcatgtctg atctcgacgt ccagcttcca tctgcttttg atccgtttgc 240  
agaggcaaat gctgaggact ccagtgtctg tgctggatca aaggactatg tgcacgtgcg 300  
tattcagcag cgcaacggaa ggaagagtct gacaactgtt catggcttga agaaagagta 360  
cagctacaac aagatcctca aggatctcaa aaaagagttc tgctgcaatg 410

<210> 29109

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-B1

<400> 29109

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aaggaggcga acaacttctt ttggccattt aagctgaagg caccgctggg aggtctgaag 180  
aagaagagga accactatgt ggagggtggt gatgccggt accgtgagaa ttacatcaac 240  
gagctcatca aaaggatgaa ttaggttcac gatcaagctc tattgtgttc taagaaactt 300  
tctgtgctct cccaatttta cattattagg aagcggatga atatgcatgc agttttgttg 360  
tttggaacta gatgtgtatg gaagaaacat gatctttttt ctcggaagtt t 411

<210> 29110

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F4

<400> 29110

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gacattgaag actacaaatg ttcttggtta gttgtgcaag ctcttgagcg tgctgtgag 180  
aaccaaaaga gcattctgtt tgaaaattac ggaaagtctg atccagcgtg tgttgcaaag 240  
gtgaaggact tgtacaaaga gcttaaactg gatgagggtt tccatgagta cgagagggag 300



agttacaaca agc

313

<210> 29111

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F5

<400> 29111

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cgcgtgtgac cgagatggcg ctgccgaatc aggggaccgt tgattacccc agcttcaagc 180

tcgtcatcgt cggcgatggt ggaactggta aaactacatt tgtgaagagg catctcactg 240

gagagtttga gaagaaatat gaaccaacca ttggtgtgga agttcattcg taggatttca 300

tcactaactg tggatatgac aggttctaac tgc 333

<210> 29112

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F6

<400> 29112

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aagacagaac taaaagaaag gtggtggggg tgatctggta aggcttggt ctgccgaaat 120

attgtggggg aggagtgatt atgtcggttt tgttttcacg tttatatgtt ttttatttat 180

cttgttattt ttttttgata ttttcttctt gttgtttatt atatttttta tttt 234

<210> 29113

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F7

<400> 29113

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tgaaggtggt gagcctgcac ccgaggaagc acaataggat tctttgttca cacaagctag 120  
gcacatagcc gtacgtacca ttccgtatgc ttagttgccg tattgttggg aactgtttgt 180  
gcgtgtatatt ctgttagacg ttccccgctg gtttaggctg tgttttatat tgctgttttg 240  
tctttttgaa tgttgagacc atacaactgt cgatcattat ctcataattg ttgtaaaaat 300  
actataattg ataataaat tttatcttct tgggtttttt ttatctttta cttgtttttt 360  
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<210> 29114

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F8

<400> 29114

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cgtgtgtaga gaagattgca aaactgcagt atgatggatt ccactattca tcaaccgaga 120  
tcatggcgcg cttcaatcgt ggctactctg atggggaatt gatccgttat ggctcgtggc 180  
tgtggagatg tggaactcat tggttatagt gtgcttcaat catgggtcat ggcatgctg 240  
atggaactga tttgttacca aggtttaagt ttctgctacc gttggacggc ctgactggta 300  
ctttgccctg ttgactgttt gagaacgtac tgcctagggt tacttaatac ttgctgcttt 360  
ttgacgggtc tgtacatatt gtttgatatt ttatttct 398

<210> 29115

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F9

<400> 29115

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gggcacctga ccagccttcg cccgtccctc ctgcacgtag ccggcgcgcc agcagcctgc 180  
agctccatgg atcgcccgtc tctccttcga tctggtaacg ccagtaggca gtagtagcta 240

gagaacaacg gaggaatatt atgtaacatc actgtcactt gtgcgtgtcc aagctagggt 300  
 ttttatgtag agagaagcgg agcttacgag cgagacag 338

<210> 29116  
 <211> 154  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G1

<400> 29116

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 aaatcggatg atcatgtcga atttgaatga gtat 154

<210> 29117  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G10

<400> 29117

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 tttacctttt ctcatgctcc cgtgcttagg gttttgaatt gggcatcgag gccatcttca 180  
 tactggtgac agaagaaatg ttttgtgtat atttctgtcc aaactcggct gtagctttca 240  
 gagtttgtga atagttgaca tgtttatatg gtctgtgaag ttttgaaatg tttaatgggc 300  
 cttacaggtg tgtacctttt ctcatgtact ccgcgcaaaa ttgtacaaca atgtttaatg 360  
 ggccttatac gtggaccctt c 381

<210> 29118  
 <211> 280  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G11

<400> 29118

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aggtgcacct tagatcatga ctaccgtgct tacggttttg aatagggcat cgagagtctc 180  
ttcatactgg tgacctatga aaagttaatgt gtatataact gtccaaactg ggctgttgct 240  
ttcatagttg gttaatcttt gacatgttta tatggctctgt 280

<210> 29119

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G12

<400> 29119

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gaacacaagg gagacagctt ttgcgcttcg caagctgcct ttgaccaagg ctaagcgata 180  
ccttgaggat gttattgctc acaagcaggc aattcccttc cggagatact gtggaggtgt 240  
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gtcagccagg ttcatattgg atttgctgaa gaatgctgag agtaacgctg atgtgaaagg 360  
cttgagcgtg gacaacctct atgtttcaca catccagggtg aaccaagccc agaag 415

<210> 29120

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G2

<400> 29120

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atctcggaag aacatgacgc atttgaatga gtatgcgttc ggggtgatgc aattataatc 180  
ccattatctt atgcca 196

<210> 29121  
 <211> 295  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-G3  
  
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 cagttccctg ccctggccta agcacagctc gtgttctcgc tcaagattgt gtcacttttg 180  
 cggagtgcgt cagtcagtcc tagtggtggt gctcccaagc ttgctttccg gattatgtgt 240  
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<210> 29122  
 <211> 312  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-G4  
  
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 ctaccgacgg ccgcggcagc ggccatcgtg gccgcgtcc tgggtggcggg cctgccgggc 180  
 gcccgggcgg cgtctgcctc gccggcggcg gacgacgcgc cgtcgtacag gaaccacacc 240  
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 tccgactggg cc 312

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 <211> 345  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-G6  
  
 <400> 29123  
  
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agcaggacct ggaagaggcg ctgctccgta tctgtcagca gcaccaccac cagtccctct 180  
 gccaacgaca acaaaccgag cgtgcaaaga aggacgcctt gaagagcgcg gtgcgggtcg 240  
 gcgatctcct cgtggacacg gtcgacggcg ggggtcggga gctcttcgtc aacgagaagc 300  
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<210> 29124

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G7

<400> 29124

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 ggtcgcggtc accggaccgg acgcacaggg gcgccgtacg tgcagtcacg ggccatgatg 180  
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<210> 29125

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G8

<400> 29125

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 cggaccctca agctcgtgcg acgagcctct gaggccaagt gcctcaagcg cggagtcaaa 180  
 gaggtagtca agagcattcg ccgcgggaac aaagggttgt gtgtgattgc tggaaatatt 240  
 tctctattg atgtgattac acacgttcca atactatgtg aggaatctaa tgttccttac 300  
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<210> 29126

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F3

<400> 29126

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agggacaatg cctgccctcg ccaagccgcg ctcccgcacc gccaaagccg ccgcggtcc 120  
gaagccgaag cctgccgcg ccaagccgaa ggcgccacc gctggtgct tccaccgcg 180  
ttacttcgag atgatcaagg aggctatcac ggcgctcaag gagaggaccg gctccagctc 240  
gcaagcgatc gccaaagtatg tgggggacaa gcacggcgcg tctctgccgg cccatttcat 300  
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<210> 29127

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-G9

<400> 29127

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ggcttttgag aagtacacaa aagttgattc tgggtggttac acatcattgg atgatgtcac 180  
aagcctacct ccttcacga gagataaaat ggaaactttc tttcttgag aaacattgaa 240  
gtatttgtat ttactgtttg atgaaaacaa tacccttccc ctagataagt atgtgttcaa 300  
tacagaggcc catcctcttc cagttatgcg gtctgcagaa caggcttcac attctgtgta 360  
gtttcccaag tttatagctg ttgtaccatg gtgagaagta cagatctgtg acaaatatac 420  
ttgacaacat agttggagga 440

<210> 29128

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H1

<400> 29128

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gtgggaccag tacgggcacc tctgtgcta catcacgtac ggcgtttaca aggacagggc 120  
catgtaccat cgcgccttct gcgactgcta ctgtctggct cgcttgctac aaacacgcgt 180  
ttagttaatt gtacatgtcc tgcgctcgct tacgttcatg ctctgtggta tgtactccat 240  
gatac 245

<210> 29129  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-008-Q1-K1-H10  
<400> 29129

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agtgaggaag aagagtcaac tattcgcatc cacgatacac ctcatctagc aggtgtactt 120  
catatatgac tcatagtgca ttaatatgac ctctaattgg ataaatggct ggcatctctc 180  
tcttcttgat gacttcaaatt ggagttaaca tcatactgat ntgagatcct tcatccaatg 240  
tgcatcggat gacgctcgga cttacttgaa tactatgtaa cagctcacia taaattgcgg 300  
tcttatatat catattgtaa tcgaacttct gatgatggat tctgttgaga tgattgccat 360  
ggatttttat aaaccatttt gaatgtgtga caagaataac a 401

<210> 29130  
<211> 268  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-008-Q1-K1-D4  
<400> 29130

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aacttttgat gagaagcaag ccatggagga tgctattgag ggaatgaatg gactggactt 120  
ggacgggagg aacatcactg ttgataaagc tcagccacia ggacctggtg gagaccgtaa 180  
tggtgaccgt gattatgacc gcgagcgtgg atctcgttat gaacgtggtc gtgactatgg 240  
tggtgggagc gcaccgcgag gtggtggt 268



<210> 29131  
 <211> 278  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-D5  
  
 <400> 29131  
  
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 cacactgaac tgggtactttg ggaacaaccg gtccatgctt gtgtcgaatt gcctgttccg 120  
 gatgggtggc gcggccatcc tgctctcgaa caggcggtct gacaggcgga ggtccaagta 180  
 tgagctggtg cacacggtgc gcacgcacaa gggcgccaac gacaagtgtt ttggctgcgt 240  
 gacacatgag gaagatgagt ttggcaagat tggcgtgt 278

<210> 29132  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-D7  
  
 <400> 29132  
  
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 acgaacctac ctacttccaa ggaagcacca gtcattccatc accttgtaca tgtttttatg 120  
 ttgcagcact agtgggtgtt aattgtcagc tgcgatcatg tgagaacctg acctggtaca 180  
 ttatgtatat aagaagaata agaacctgtt aacttatatg gtatagtatg taagttcatg 240  
 gcagaatgtt cttgatggtt ggattcgtgc gcagttgaac agttgctggt gttgtaatgt 300  
 gat 303

<210> 29133  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-D8  
  
 <400> 29133  
  
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tgctttctcc tcatgccgat tgttgacaaa ctaccagcac ttctaagaca agaccttgag 120  
 tcagctttcg aagaggaact tgatagcatc tttgatgtca ctcagctgcg ccagtcactt 180  
 gggcagaaga agcgcttggt ttgatctaata tttttatttt gttttttttt tatttttttaa 240  
 tattttatttt tttttgtttt ttatatattat ttttttttat atttttttta ttttttattt 300  
 tataattttt ttatgtttta tttatttttt ttattatttt ttttattttt tatatatattt 360  
 tatttttttg attttttttt tttatatatt tttttttttt tttttatttt 410

<210> 29134  
 <211> 185  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D9

<400> 29134

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 caagtggagt attagtccca gaggttgatg ctgttgtagc tatctatggg tcaccttttt 180  
 ttgag 185

<210> 29135  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E1

<400> 29135

cccacgcgtc cggtttgctg agattgctct acagctggag attcccagta ccaagactct 60  
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 ctataagcag gcgttttcta cactggagac atgtgatgat aattacaatg aatctccttc 180  
 agcagaggac tggaagaaag ttgaggctac ctgtaattac ctgaaactgc tatatgactc 240  
 tgcacatagt gtcatggctt catcaaatac tactgcaaac atctgtttcc atgaagcttg 300  
 gaaaattcag cttgagctag ccaatggcac agaacatgaa aattccatct 350

<210> 29136

<211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-E12  
  
 <400> 29136  
  
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 aagctgatat agttggtctc tgggcactga atttccttat taagaaggga ttgcttccta 120  
 agagcctgtc acaatctatg tatgtctctt tcctggctgg ctgcttcagg tcaatccgct 180  
 ttggactgga agaagctcac ggaaaaggac aagctctgca gtttaactgg ttgtatgaga 240  
 aaggggcttt tgtgttgac tctgacggaa aattctcagt tgattttaca atggttgagg 300  
 atgctgtaga aagcctgagc agggagatac tgacaatata agcaaagggc gataagcctt 360  
 ctgcccattc tcttctccag tcccgtgcaa cattgacaca tccattaaga atggcattgt 420  
 aga 423

<210> 29137  
 <211> 233  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-E2  
  
 <400> 29137  
  
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 aaaggagaag agagggtcgg aataatggcg gccgaggagg gtgccgtgat cgcgtgccac 120  
 accaaggacg agttcgacgc ccgcatggcc tatgccaaagg agcagggcaa gctggtggtc 180  
 atcgacttca tggccccctg gtgcagtggg tgccagatga tggccccctg gta 233

<210> 29138  
 <211> 344  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-E3  
  
 <400> 29138  
  
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gtacagcttc ggggtgctcc tgctggagct cctgacgggc cggacaccgt tccaggacct 120  
catggagctg catggcgacg acatccccag ctgggttcgc gcggtgctg aggaggagag 180  
ggagacggag tctgtgtccg ccggtggagg tggagccgag gagaagctca cggcgctgat 240  
caacatcgcc gcgacgtgcg tggctgcgga cccggccagg cgcctacca cggcggagct 300  
gcttccgatg gtgagggagg ccagggccta ggccatgtca tcgt 344

<210> 29139  
<211> 108  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E4

<400> 29139

cggacgcgtg cgcggacgcg tggggctgaa ttgtcgatat gcaagacttt gtgctaactt 60  
aggtatatga tggtaatttg atggttaata gatgaggtcg tacatggt 108

<210> 29140  
<211> 370  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E6

<400> 29140

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catttccttg gataaagtga cggtgctgca gccttcgca acatctgac tctatttcaa 120  
gaaaaggaaa aatcagatta ttttgggtcc ctctacttct gatgccccga gttcaaaaga 180  
tacatttcag gctgaaaata taaagtcagg tgagagtaaa gttctaattgt cttcatcttc 240  
caacaacatt atcactgtgg caaatgacag gctgcactaa gctcttcaga caacaaatac 300  
tgtcagaagt ttctcttatg tatggacact taatggacaa aattcctggt agtaaattta 360  
tggttgagct 370

<210> 29141  
<211> 237  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-E7

<400> 29141

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gatatgccct gggtcccatg attgctaggg gtgttatgct tggcgcagac cagcctgata 120  
ttctgcacat gcttgacatt ccgccagcag ctgaagccct taatggtggt aagatggagt 180  
tggttgatgc tggcgtttct tttctgaagg gatgttgatg taccactgat tgttggt 237

<210> 29142

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-008-Q1-K1-E9

<400> 29142

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ttgcgcaagt atttggtcag tctccgacct aggagccttg agcctcgtgt agcagtgggg 120  
tttgcatgga acattgcccg agctatggaa tgcttacatg cacatgggat cattcatcgt 180  
gatcttaagc ctgagaatct gttgctgact gcagaccaga gaacagtaaa acttggtgat 240  
cttggtttgg ctagggaaga gacactaacg gagatgatga ctgctgagac aggaacatac 300  
cggttgatgg ctccagagtt gtacagcaca gtaacactga ggcatggaga aaagaagcat 360  
tacaaccaca aagtagatgt ctacagcttt gcaattgtgt tgtgggaact cctncacaat 420  
aaactgccct tcgag 435

<210> 29143

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F1

<400> 29143

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ttgcatctat ctgcatgcat attataaaat aatgtcatat tgatgcaacg ctccatgcaa 120  
gtcttttcaa ggcgtacgta ctatatcaaa tcattgtaat ttccttacat gtatatgtat 180

gtgcttgtga aagatacgta cctatatata tatgtgct

218

<210> 29144

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F10

<400> 29144

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catttacttt tttcacacac gcaaatgcaa agttctcaag gaatctagtg aagattctgc 120  
gagaagctgg ccaagttgtg aatcctgcct tagaatccat gtccaggtct tcgaactcaa 180  
cgggaggagg caattttcgg tcgagaggca gaggtgggtt tggtaaccgg ggccatatgt 240  
ctggatcaaa tacctttcct ttaggaggaa gaaggccata ttgatgtgtg caaaagaact 300  
gtgggagtat gggactatth gtatactact cggcattaag tgcattcttt gggaaatttc 360  
tgagaaatth cccctactac caggattgat aacaccatcg attttcgcta cagtacctgg 420  
agcttcttat atgaaag 437

<210> 29145

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-F11

<400> 29145

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catttacttt tttcacacac gcaaatgcaa agttctcaag gaatctagtg aagattctgc 120  
gagaagctgg ccaagttgtg aatcctgcct tagaatccat gtccaggtct tcgaactcaa 180  
cgggaggagg caattttcgg tcgagaggca gaggtgggtt tggtaaccgg ggccatatgt 240  
ctggatcaaa taccttttct ttaggaggaa gatggccata ttgatgtgtg caaaagaact 300  
gtgggagtat gggactatth ttatactact cggcattaag tgcattcttt tgggaagtth 360  
ctgagatatt tcccctacta ctaggattga taac 394

<210> 29146  
 <211> 346  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-D3  
  
 <400> 29146  
  
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 ttgggggtggc gccaacacag atgcaggcag gcttggggaa ccagcagttg gggttcgacat 120  
 ccatgatggg catgcctcca cagatgtatg gcggcggatc gcaggcagcc atgatgtacc 180  
 cgcaacaaat gccagtggcg gcgcagcagc cgatgtatgg tgggtggtgt cgtctggcag 240  
 ggtacatgca gcatcctgct gtggccgctg cacactacta cagcaacctg tggactgctg 300  
 gaatgtatgg gtaccccggc gcgaacgggg ctgtccagaa catgta 346

<210> 29147  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-F12  
  
 <400> 29147  
  
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 gtccgtccgt cgtcggcgcc ggcgaacgag tagagatgga ggagacggcg gcagcggcac 120  
 cggttgagaa ggcgtcgtcg tacagggtact ggggtcggga agccaccggc gacgccgcgc 180  
 cgctccccgt cccgcgcaag ctcgaccccg ccgccaatgg gaacgggaac ccgccgcccc 240  
 tcgggtccgt ctggaatcag gctggaactt gggaggaaaa gaacctcaac tcatgggcta 300  
 atagtaggat aaaggatttg ctgggctctc taggttcatt gaagttccct acagggaatg 360  
 catccgttga tgaagtgtcc aagtgtcat gcgatgcctt tcaggtcact gtccgcaaca 420  
 tgaagagagt agga 434

<210> 29148  
 <211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-F2

<400> 29148

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tggcgttcga gcgcatgaat gagatcagct acgttatgct gatgccagtc gccttgctat 120  
tcctcaaaag gcgtacgggc tatcatgact gactggcact tacttacgtc tatgtgtatg 180

<210> 29149

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B7

<400> 29149

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cgggcgggcg gccgcccgtg acgctgcaca tggacggcgg cgtggacctg acgctgccga 120  
tggagaacac gctgatccac agcagcgcca cgccgctggc gtgcctggcc atggccgagg 180  
cgccgcagaa cgtgaacgcc gacgtgaacg tgggtggccaa ccttcagcag cagaacgtgc 240  
gggtcgtcgt cgacgtcgcc ggctcgcgcg tcggtttcgc gagggagccc tgcaactgag 300  
cccctgaatt cgtccgtgcc ctatgcac 328

<210> 29150

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B8

<400> 29150

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gtacaaaaat ctgttatttg cctgatagtt tatctggagc agtttcattt tacatatgac 120  
tgtaatttgt gagaatgtac atcttacgat ttttgttgac cagtattcat aggtTTTTtag 180  
ttagcaatgt gttgttggcc cgttgctagt ccttgtaata caagcccacc tgTTTTTTTT 240  
tgcgcatggc aagacttaac ctggaaacat tttgtagtac attttatttt gtatcacctg 300  
ctctatacac gagttttctt ggaacatcgg aaataataat gccctccagt atcttgcgac 360  
caaaaaaaaa ttaaagg 377



<210> 29151  
 <211> 413  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B9

<400> 29151

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 gaagccaaaa gaattgagga acaaaatgaa aggaaacgca tgatagaatt gcgaagactt 120  
 gagaaagagg aggagaaaag agctagagaa aaaatccgcc agaaattaga agaagataag 180  
 gctgaaagga gaaggaaact aggattgcca ccagaagacc cagcagctgc caaaccaagt 240  
 gcaccacctc ctgttgaaga gaagaagagt gcattacctg tcaggccagc cacaaaggca 300  
 gagaggatga gggactgtct aagaaatctc atgcaacaga ataaggatga tgatgccaaa 360  
 gtgaagaggg catttcaaac actgcttact tacattggaa acgttgctaa aaa 413

<210> 29152  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C1

<400> 29152

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 gttcaagctt ctgggcacaa tagttgaggg tggacaggaa aaagttctgt ctcattattcc 180  
 taaaattgta tccaacattg ccagtactgt aatggagctc ctgtccctg tcccagatcc 240  
 ttggcctcag gtagtagtgc atctttcttc tgtgtggtca atattttggt actttatcat 300  
 gatgaccggc tggaggaaca ccgggcgtgt atgagtgatc aagaacaggg a 351

<210> 29153  
 <211> 250  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C10

<400> 29153

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taacgtgaga agagataaat ttggtgtttt gcaactttct caggatatgt actcggtgag 120  
gatttagtta attattatgg ctggttagcgt agcctgacta tgcttgtgta aacctgaact 180  
ccgtgtgagc gtagtgccag ctaatatggt gctgcttgct ttttgctgag ggtgtgactt 240  
tgcatttgat 250

<210> 29154

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C12

<400> 29154

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gcaaagacca agaaatatac tgcattaaat tgcctgggaa cccaagctt ggtgaaggca 120  
aacctgagaa ccaaaccat gccataatct tactcggagg agatgcagtt cagacgatcg 180  
atatgaatca ggataactac ttggaggaag caatgaaaat gagaaattta cttgaagaat 240  
ttcataatgc tcatggaaaa catggcatac ggaagcccac aatcctaggt gtgagggagc 300  
atgtattcac ggtgagtgac tcttcgctgg cgtcatttat gtccaaacag gagactagtt 360  
ttgttacttt ggggcaacgt gttcttgctt acctcaaatt cgaatgcact atggacattc 420  
tgatgttttt gatcggat 438

<210> 29155

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C2

<400> 29155

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gggtcatata taatttatat aaagaaaacc taaaacatta actaaaacat atataaatta 120  
actaaaaacc tcaaatacat ataataaaaa atattacgac cacaacatat atagtttcag 180

attgttacta agtttcaatc atagttataa c

211

<210> 29156

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C4

<400> 29156

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tgtaagcttc atcttcagcc atgggtaagg agaagtcca catcaacatt gtggtcattg 120  
gccacgtcga ctctggcaag tctaccacca ccggccacct gatctacaag cttggaggca 180  
ttgacaagcg tgtaatagag aggtttgaga aggatgctgc ttttatgaac tagcttgcc 240  
ttaagtttgc ttgttttgct ttcttagttt attgttgttt gttatatgtt tatttttctt 300  
ttgttttttg ttcttggtgt tttttatttt tctgtttcat tttctttttt tttttttttt 360  
cttttt 366

<210> 29157

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C5

<400> 29157

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atgcacaggc attcctgtga agaagttttc actgtcctca aagggaaggg tacgctcttg 120  
atgggatcaa gtcactaaa gtaccaggg cagccacagg aaattccttt ctttcagaat 180  
accacatttt caatccctgt aaatgatcca caccagggtt ggaattctga cgagcacgaa 240  
gatttgcaag ttcttgatgat catatcgaga ccgctgcta agaatatattt atatgatgat 300  
tggagcatgc ctcatcacgc cgcggtactg aaat 334

<210> 29158

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C6

<400> 29158

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aaggggaaga agggagcggc cggtcgcaag gtcggctggc caaggaagaa gtcggtgtct 120  
aggtccttga atgccgtgct ccagt 145

<210> 29159

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C7

<400> 29159

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ccaaggagat cgttgcctcc gtcctccctcg tcgtcttcag caaaacttcc tgccctttct 120  
ggctcccggt gaaaccattg gttcaagaac ctggaaccag gctacaaggc cattgatttg 180  
aataaggaag gtgttgg 197

<210> 29160

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C8

<400> 29160

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gcagccttag cttggaatgt gttgcatggg ttgttatatt tatgatgagg aataaattta 120  
attaactttg cataatttcc aatgtatttg agtgagccga gataaacgta tgagacttgt 180  
ggatacaaat ggctaatt 197

<210> 29161

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-C9

<400> 29161

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tcccaccacc aacccccaga tcgcagcgat ctccgccgcc gccctctcag ggattccgcg 120  
cgacaaagtc aggcgtagag gctccaggag gaggagggag gcgcagcagg gcgggtgggg 180  
gagatgttcc tctgggactg gttctacggg gtgctggcct cctcggcct gtggcagaag 240  
gaggccaaga tcctcttcct tggcctcgac aacgccggca agaccacgct gctccacatg 300  
ctcaaggacg agcggttggt gcagcaccag ccgacgcagc acccgacgtc ggaggagctc 360  
agcatcggca agatcaagtt caaggccttc gacctcggcg gccaccagat cgcgcgccgc 420  
gtgtggaagg a 431

<210> 29162

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D1

<400> 29162

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cggcctacac ctcgacggg cggtacgccg tgtgcgcgag cgaggactcg cacgtctacc 120  
tgtggcggac caccgggtg ccgtctgccg cggccatcgg catcggcattg aagcccaagg 180  
cgtggtgcac catccgctcc tacgagaact tctactgcaa ggacgtgtcc gccgcgggtcc 240  
cctggacgca gtgcgcgtcc ccgccgggcy ccagcgacgg cagccccact ggcagcagcc 300  
cggcgtcggc tgacaag 317

<210> 29163

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D10

<400> 29163

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gcaatacggg ttgctgaatt gcatgatact tccctaagaa tggcagctaa aggtgtgatt 120

aagaaagttg tagactggga agaatcacgc tcgttcttct ataaaaggct acggaggagg 180  
atcgcagaag atgttcttgc aaaagaaata aggcagatag tcggtgataa atttacgcac 240  
caattagcaa tggagctcat caaggaatgg taccttgctt ctcaggccac aacaggaagc 300  
actggatggg atgacgatga tgcttttgtt gcctggaagg acagtcctga aaactacaag 360  
gtgcatatcc aaaagcttat ggctcaaaaa gtgtctcatt cgctctctga t 411

<210> 29164

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B5

<400> 29164

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gatgccagac aacttatagc ttctggcggg atgccatcat ccactcagc tacagtgaca 120  
gcactttcag tggctgtggg aatccaagaa ggctttcgta gtgcaacatt tgcaactgca 180  
ctagtctttg catgtgtggt tatgcatgat gcttttggag ttcggttaca tgccggaaag 240  
caggcagagg tgctgaatca aattgtctat gagctgccag aggaacaccc attatcagag 300  
acaaagccac tgcgtgaaat ccttggacat actgttcttc aggttgtggc cggttgcac 360  
cctggaatac ctatggctgt cgttatgctt ttgtcttttg ggaggtctta gtcaagtgtt 420  
g 421

<210> 29165

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D11

<400> 29165

cggacgcgtg ggcggacgcg tgggtgctac cgcaaaacaa caacatggat cttattggct 60  
gccacgatat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaga aacgcatata aaaaataata aaaaataatg tagaggggca 180  
tataagtaca aaacattacg aaagttaaaa aaaaaatgaa tagcgaaaaa ataatggcaa 240

cacaaatcaa tatagaagag catcatataa aacctttcaa aatggcaaaa catagaaaa 299

<210> 29166

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D12

<400> 29166

tgattttgtt aagaataaac tatttttttta cttaaaaata acaacaaaaa aaaaagagat 60

tgtgattata tacaataaaa aaaataatta catattataa ataaaatatt aaatttgaat 120

ttatttttta atttaattac ttaaatttaa tctattattt atat 164

<210> 29167

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-D2

<400> 29167

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tgctgtggga ttagtctag caatgcactt tgtgctcgag cgaatactta taaattatca 120

atgatgaaaa ccaggctgct gctttatagg atccagcatt actatacgcc atgattcgcc 180

gggcatgc 188

<210> 29168

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H6

<400> 29168

cccacgcgtc cgccttcgtt cgcgccgccg tttccgcgcg cgctacgctc cgcacctcgc 60

tggatttcgt gtcgccaaga tgacgaagcg cactaagaag gcaggaattg ttggcaaata 120

tggaaccagg tatggtgcta gcttgcgtaa gcaaatcaag aagatggagg tatctcatca 180

ttccaagtac ttttgctagt tctgtgggaa gtttgctgtg aagaggaaag cagttggaat 240

ttgggggtgc aaggactgtg ggaaggtgaa ggctgggtgt gcttacacca tgtacactgc 300  
tagtgcggtc accgtctgga gcacgatccg ttttctgatg gagcattctg aatcatgatt 360  
ttatcttttt atatt 375

<210> 29169  
<211> 103  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-007-Q1-K1-H7  
  
<400> 29169

cacacgcgtg cgtatgacgc ctggtctact ccttgacat ccccttcac acctacgggt 60  
aggtacctct gtccaagatg attctcgatc tggccacgaa cag 103

<210> 29170  
<211> 406  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-007-Q1-K1-H8  
  
<400> 29170

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taccatgacg tgcttctgt gatctttgct ctgactggat aactggaaa tctattccat 120  
gacttcaccg acgtgcttgt ccccttttcc acgactgcaa gcgagttcaa tgggtgaagtt 180  
cagttcctaa tcacagacat ggctatttgg tggacaagga agtatgctgt ggtgtttgag 240  
aagctaacca agtaccctt gattgatttc aaaaagaca acgaagtga ttgcttcaag 300  
catgccattg tcggccttca tgcttacatg gagttcacia tcgaccggt aaaggctcca 360  
cacaattact caatgggtga cttcaaccgg ttcatgcgca tgacct 406

<210> 29171  
<211> 420  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-007-Q1-K1-H9  
  
<400> 29171



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aaagttgacc caatggatat cacaccggcg ctaccacaac aagcaccaga agccaatgcc 120  
aacgtgggtca cctcgtagct gcaccagttc cgttgatagt tccgttgctg gcgacttact 180  
gacctctcgg taagtatgat aggatagcaa tcttggttaag tccttatatg aaccaatcaa 240  
ttagttgtgc ttgtaactgg tagattgttt agcgagggag gcgacctcag gcaaacattg 300  
atattgaacc cgtttagctgt aacgctgtgt aacagtagaa gaaagaagct gaagtcgcca 360  
ggtaatttat tgtaaactg tatgatgccg ggtaaactca tgcccttctt gttcaagcta 420

<210> 29172  
<211> 273  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-008-Q1-K1-A1  
<400> 29172

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cgaattccga cacgtatgtc atattcggcg aggctaagat cgaggacctc agtccccagc 120  
tgcagaccca ggcagcagag cagttcaagg ctcttgactt gagccagatg atctcgaatc 180  
cagagacgtc tggcccggga caggaggaca atgatgagga ggacgacgaa acttgtgttg 240  
aggccaagga cattgagttg gtgatgaccc agg 273

<210> 29173  
<211> 136  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-008-Q1-K1-A10  
<400> 29173

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gggctcgcct aagcagtacg gttgatgcgc atgcttgcta ctcaatttgg tgcttaattt 120  
atcatattat ggatga 136

<210> 29174

<211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-A11  
  
 <400> 29174  
  
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 cgttcgacgt gtctctagga ccggcgggtcc attctcacga tgaagcatca gtcggaattg 120  
 gctcacggcg ctaacgcggg ctggacatcg cgggtgcggct gtcgagccca tcaaggagga 180  
 gttccaatcc tctgtacgcc gattttctacc agctcgcggg agttgtggcc gtggaggtca 240  
 ccggtggggc tgagattccc ttccaccccg gtagggagga caagcctcaa ccttcacctg 300  
 agggccgact tcctgacgcc actaagggtt ctgaccacct gaggcaagtt tttggcaagc 360  
 agatgggctt gagcgatcag gacattgttg ccctatgtgg tggccacacc 410

<210> 29175  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-A12  
  
 <400> 29175  
  
 gtcacgcgta cagcaggcg aagtagatga gcgagatcac gagagtagca gtgaaacca 60  
 aacattagca agtacacaga gaccgaatgc gtagagaaag tacagtttat tacaacagct 120  
 caagggaag gacgcgaacg ccaagatgtg gaacatactg gcctacacat ttaccacgta 180  
 tcgaatcaaa aagataatgc tagcacatga agattttgga aagattgcac tagaactcgc 240  
 tgtatgagat tccagatctc atgaatcgtg ttgacaagat catattgacc ttacttatga 300  
 agaacctc 308

<210> 29176  
 <211> 353  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-A2  
  
 <400> 29176

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 ttgcggcagc accgccgacc acgagcccg cgaagggctc ctccgcctgc cgttccaggg 120  
 tgcaactgccg ccattgctca tctccccgtg gtgcggaggt ccacccgggc gccaatgggt 180  
 ctctcttttc gttggcagac tgagtggcat ccaatcctga atcaatgagg ggctgggggtt 240  
 tgctcgtgtt atcgcttcat gttctttcat gcctggtagt ggcgttgctt ctgggtcaaac 300  
 aagctcttat gtgctcacag aggttccatc tacagattta cctcttgaaa gtg 353

<210> 29177

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A3

<400> 29177

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 ttatcctoga tcgggagacg cagagggtccc gcggttctcg cttegtcacc ttctccacgg 120  
 aggagggcat gcggaacgcc atcgagggca tgaacggcaa ggagctggac ggccgcaaca 180  
 tcaccgtcaa cgaggccag tcccgcggcg gccgtggagg ctgcagctgc ggctacgggtg 240  
 gtggccgtgg aagcggccgc tacggctgtt gcgggcgccg tgatggctgc tgcggcta 298

<210> 29178

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A4

<400> 29178

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 tgaacataaa aattagtaat ctggagaggg atttacaata ttggaccatt ttaacctaga 120  
 cgagccaaac 130

<210> 29179

<211> 150

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A5

<400> 29179

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ggggcattct acgagtggtc aaggaccggg tgtacattgt atacgagaaa gcattagtca 120  
taattagctc actgcactaa ctcatagctt 150

<210> 29180

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A7

<400> 29180

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ggcgctggcg tccaaggagg aggtgatcgg gaagctcaac atccgcgtgg tgcggggcaa 120  
caacctggcc atcgccgacc cgctcaccca caccagcgac ccctacgtcg tcctccagta 180  
cggcgctcag aagggtgaaga ctagtgtcca gaagaagaac cccaatccag tgtggaacga 240  
agtactgcag ctctcagtaa ccaatcctac taagccagtg caccttgagg tttttgatga 300  
agacaagttc acagcagact actgcatggg tgttgc 336

<210> 29181

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-A9

<400> 29181

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gggacgttcg acgtgtcgtc gaggaccggc ggtccattcg gcacgatgaa gcatcagtcg 120  
gaattggctc acggcgctaa cgcggggctg gacatcgagg tgcggctgct cgagcccatc 180  
aaggaggagt tccaatect ctcttacgcc gatctctacc agctcgcggg agttgtggcc 240  
gtggagggtca ccggtgggccc tgagattccc ttccaccccg gtagggagga caagcctcaa 300  
ccccacctg agggccgact tcctgacgcc actaagggtt ctgaccacct gaggcaagtt 360

tttggcaagc agatgggctt gagcgatcat gacattgttg c

401

<210> 29182

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B10

<400> 29182

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gcgggttgcca ctgcccttat tcagggttgc tacatgggat tggttgggtc gtttcccttc 120

aactccttcc tctcaggagt cctttcatgc ataggaactg cagttcttgc tgtttgcctc 180

cgcattcaag tgaacaaaga caacaaagaa ttcaaggacc ttccccaga aagggccttt 240

gctgatttcg tcctatgcaa tctgggtgctc cacctgggtga tcatgaattt cctcggataa 300

gcaactgctg caccatgttg gttaaagggt ttgtagcccc aagttgtggt cgctgattgt 360

cgcctttaa tggttggaac tgcgtgatc gtgatgtcga atatccatat gatctgttga 420

agtaagc 427

<210> 29183

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H5

<400> 29183

ctttacattg aaatgctgtc gtttgtacat gttttttctg agttctacac ctgcttgtct 60

tgcttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa taaaaaatta aaaaaaata a 161

<210> 29184

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-B11

<400> 29184

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 tcgtagaaga aatcgaaaac actatattta ctacgccccaa ttctttgttc aaatccatgt 120  
 ctccatcaga atatcttatt aaaaggggtca tcatgcttga aaatgacttg aaatgctact 180  
 accaaactga gggattaaac cagaagaatg agaattcatc agttatccaa tatattcagg 240  
 tgcatacaaga tgacgccatt ttgaatatca aacttgagct gttctctcta atagcaaadc 300  
 agccagcctt caaccagcta cgaactgttg aacaacttgg gtatataaca agtctttctc 360  
 tgagatccga ctatggagtc ctggcactcc aggttggttat ccagtccaca gtaaaggatc 420  
 cttca 425

<210> 29185  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-008-Q1-K1-B12  
 <400> 29185

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 aaaaggtggc cctgggataa ccagggccga tctgttggtg ataaacaaga cagacctagc 180  
 acctgctgtt ggagctgac tgtctgtaat ggagcgagac gcacttcgca tgcgcgaagg 240  
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 tattctgcag gcgtgggaga tcgcgactgg taataagcgg cgataagatc tcacgacttg 360  
 tggccatatg ttggatgcag atttgaatca gtcggcactt ccacatgcat gtgtcatctg 420  
 ttcgttct 428

<210> 29186  
 <211> 144  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-008-Q1-K1-B2  
 <400> 29186

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ggagctgcct gccaacgtcg ctgaccttct gtgatcattt tgaagaaaaa cagaactaaa 120  
 agaaaggtgg tgggggtgat ctgg 144

<210> 29187  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-008-Q1-K1-B3  
 <400> 29187

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 ctcgtaacc tcgacctgag tgactgcaca gacaggatca tcgccgagta catctgggtt 120  
 ggaggatccg gcatagacct caggagcaaa gcaaggacgg tgaaaggccc catcaccgat 180  
 ccgagccagc tgccaaaatg gaactacgac ggctccagca ccgggcaggc tcccggagag 240  
 gacagcgaag tcctcctcta cctcaagcc attttcaagg acccgttcag gaagggtaac 300  
 aacatccttg tgatgtgtga ctgctacacg ccacaaggcg ag 342

<210> 29188  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-008-Q1-K1-B4  
 <400> 29188

gaagtatcag cgtacaggaa tgtgagacat tcaccatcat ggagctttcg gtgggacaat 60  
 cgcacacata tagaagacat aatggaaatc cctactctgt tctccaacca tagtagtgga 120  
 agcattcggc ctgatacaaa gagggttcc attgcccacaa ctgaagggtt ttctaattgga 180  
 aatagccttg gaactagccc ttccaatgtg tctcacggaa caaagtggca caaatctgac 240  
 aaaaaaatgg aagcatctaa gggtacaaag gctgatcctt gaggcaaagc tttccaggaa 300  
 atcgctggac atgtcaagtg ttgcttcaga tttgaagaca ttatgggtctg ttcccttaaa 360  
 accaccctta gtatccagag cagattcatc attcctcagg ggc 403

<210> 29189  
 <211> 329  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F4

<400> 29189

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ggggcgcgcg acccgacag aacgcgcca ccagcgcgcg cggccaagga taaccagatc 120  
accacgaca acaagcagca gagggcaagc acggctcgcg cagaccacgg agaggagagc 180  
gccctaccga cgcacagga cacgcagccg gctaacgcgc acgaaggaag acagagcaca 240  
ggtaaaacaa ccgagaagga gagcgaggcc gggaaggaca cccgaccgag gggaccaggc 300  
aaaaaaacca caacacacgc cagagcaag 329

<210> 29190

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F5

<400> 29190

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aggagcaggc gcaagaccaa gaactgcacc gcttcctatt aggagtggcc tgatatatag 120  
ggaaccttta ccagtaggag gcacccatct tttatttgcc aaaacagttt gtttaacagc 180  
atcaacgaat tgctcaacag ttggagcagg catacacatc ctctctgcac cgcttagcat 240  
ccttatagca ttctcctctg gacgaaatag aaggatggac ccatcagttt tcctatatgc 300  
ttttaggcct tcaaacaatc cctgcccata atttaagact ccagcttaag gactcagtgc 360  
tatatgacca aatggtatga ctttaccttt ggaaaagatt ccatcagttc cacaatttgc 420

<210> 29191

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F6

<400> 29191

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ggtgcaagcg catgaccaag aactgcactg cttactatta tgagtggcct gatataataag 120  
 gaacctttac cagtttgagg cacccaactt ttatttgcca aaacagtttg tttaacagca 180  
 tcaactaatt gctcaacagt tgtagcaggc atacacatct atctctgcac cgtttttagta 240  
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<210> 29192

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F8

<400> 29192

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 attatagtgt taccaaaatt taatttactg gcctttgttt aacaacttct tgactggtaa 180  
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<210> 29193

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G1

<400> 29193

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 agatcattac cttgctcaga agggccattt gtgcatgatg gatattcaag atcaaacatt 180  
 gacagatctt caatgaatcc tatgaatcat caacatactg ttctgaatca tttgccatct 240  
 ggagcaccac taccaggcca tatttctcag atgctaccag ccagggtctga tatgcacact 300  
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<210> 29194

<211> 54  
 <212> DNA  
 <213> Zea mays  
  
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 <211> 87  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-G11  
  
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 agggaaaaat taaaaattaa aaagggc 87  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-G12  
  
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 ccacggacct gcccgacaa atgctggatg gttcaacgac attatagaca ccgtgtccgc 180  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-G2  
  
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tggcagcgcc cgagcaatcg ccacgcccac gcccgaatgg aagacagcgc caccaatggc 120  
 catgggggttg tgacggctgt cccggcctcg tggaacttcg agccaaacga gaccctcctg 180  
 ggtctttcgg cgctctcggg tcgtggcgtg ctgaccagag tcatggccgg gatgttgccc 240  
 gacggtgggc tgt 253

<210> 29198  
 <211> 235  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-007-Q1-K1-G3  
 <400> 29198

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 tcgatcacia aaggtcaaac aaggcaagat atacaggaat gcttgaagga aggatatatc 180  
 tgtgtacggg cgttccaacg gaagaccaga ataccactac gcctatgttg cacac 235

<210> 29199  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-007-Q1-K1-G5  
 <400> 29199

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 aagctacaag ggaagggctt caaataacca gagaggagga aagcgtttca acgcgaagcg 120  
 agatagaaac ccagactcgg agaagaattc taacaaggct cggaagggtg aagctatcgc 180  
 atgagggtta tttaggtacc ttagctcgac taaagaagta acatgttatg ccagcatgat 240  
 cgacttcagt actctccaag tgtctagaat cgacttgtct tttagctatc gttttcattt 300  
 tggtcgtttt gccactttat tcgatgttag tcccttagct ataatecttt ttgaatgtct 360  
 ttactgagat gcta 374

<210> 29200  
 <211> 423  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G6

<400> 29200

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aggatacaga gggattcact gtcgtttcaa aacgccgaag gcgtccccag ccgttcatga 120  
accccataaa tggcctatat tctcagccgt ctatttgcac ctctgtcagt taaggtcatt 180  
gcgttatcga agacctgcaa tattttggga gatggacctt tgcctttgcc tttgcttaga 240  
ggattggtat ttggtagcag agattttctc tatccaagtg agttgtgagc agcgagcatt 300  
tagtcaaact gtacaaaagt tttccgggat accctttttg taataaaaga aactgatgta 360  
ttccgcagta gctgtagcgc tggatataat gttcccttgt atgttatata tgacagaatc 420  
ata 423

<210> 29201

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G7

<400> 29201

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agatccccgt gccttttcag agcatctctc cgtcgccgtg acaatgaagc agcagcgagg 120  
cgaccttgcg acctccgttc ctctgcgctc cggttgagtt gctgatttgg gataatcatg 180  
ttctctctga gtgaatgaac atgtctggga atgatgataa gccacatgct gctgcaaaca 240  
gaataaaggc agccacgtta tcagtgacta agggattgag cagggctcaa gctgaatggg 300  
ctgcgactgc tgctaccgc aatgtgaatg cctatgggca gaatgaagag ggacgaagcc 360  
gtttgcaaga gaggaagaaa gccaagagtc agatgtatct gatga 405

<210> 29202

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G8

<400> 29202

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ggcccactgg acagggacag agtgtggcgt tgctcttttc tgtttccgta cgtaactact 120  
tggatcgcg c atgcccgtgt atgcgtgttc cgttgtgggtg ttgctgtact cgatctgctg 180  
cctgtgtgta tctaccgagc tcttcggaca gatacgctg cgatgaata attgatgtaa 240  
taacgacgtg tgcacccgct atatatatgc atatctaaaa taaaaagata tcatatctta 300  
tatt 304

<210> 29203

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-G9

<400> 29203

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cagaacagca ctccggagctc gctgcccga cggcccacca tgatcatccc caagaagaac 120  
cgcaatgaga tctgcaagta cctcttcaag gagggcgtgc tgtatgcaa gaaggactac 180  
aacctggcga agcaccacaca gattgatgtg cccaaccttc aggtgatcaa gctcatgcag 240  
agcttcaagt ccaaggagta tgtagagag accttctcct ggcagtacta ctactgggac 300  
cttaccaacg atggcattga gccctactc aactacc 337

<210> 29204

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F2

<400> 29204

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atgcttcgag tcttcggtag gcttcgaatc cttatggggg aataacttcc aagtttcaaa 120  
atttaagtga agagacttat tttttccaga agaatagatt catagtttaa gaacggaata 180  
cccatatatg aaaataagag cttccgtgcg taaaatgcgt acacaatgtc gactgattcg 240

caggcgtggg cgaattagag tcattcggtc caatccgaag cataaacaaa gactggggta 300  
atctttcgaa aaagaagctt ttctgtctaa tagcttttct t 341

<210> 29205  
<211> 184  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-007-Q1-K1-H10  
  
<400> 29205

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gaatgtgggc gaatggatat aacaccgtcg cttccacaac atgcaccaga agccaatgct 120  
aacgaggtca cctagtaact gcaccagttg cgttgattgt tttgtttcag gcttatttac 180  
tgac 184

<210> 29206  
<211> 445  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-007-Q1-K1-H11  
  
<400> 29206

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gagctcgctt gcccgactgc ccaccatgat catccccaag aagaaccgca atgagatctg 120  
caagtacctc ttcaaggagg gcggtgctgta tgccaagaag gactacaacc tggcgaagca 180  
cccacagatt gatgtgcca accttcaggt gatcaagctc atgcagagct tcaagtccaa 240  
ggagtatgtc agagagacct tctcctggca gtactactac tgggtacctca ccaacgatgg 300  
cattgagcac ctacgcaact acctgaacct tccgtctgag attgtgctg ccacgctcaa 360  
gaagtctgcc aggccactgg gccgtccatt tggtctctggc ccttctgggtg aaccgccaag 420  
gggccctggg cgttttgaag acaga 445

<210> 29207  
<211> 404  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H2

<400> 29207

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tgctcaaggg aaaggagccg tgcagcttgg gaagctattg atgagtattt gatgcccttc 120  
gtggaaaaag aaaaatatga actcccaagc aaatgtagac ttcgtcctga taatgacatg 180  
tttcggggagc aagagcaaca taagattcat tttgatatta atgagtggca ctgtggcttt 240  
tgcaagaaag ctttccgagc agagaagtgc attgatcagc attttgaaaa tcgccacaag 300  
aatcttgttg ataatagtga aggaagatgc atggcagatc tatgcggcgc actacattgt 360  
gatctgatga tgcagttcat ataaccaaaa tgtaaatgca atgc 404

<210> 29208

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H3

<400> 29208

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cgcgagttag cgatggccgg agaggacgcc gccgcgcgga ggaggccccc gaaggaggag 120  
gaggaggagg aagatgacga cgatttggac aacgttccgc tggcactttc cagggccaag 180  
aaaccgggta atgcgagcgc ctccaaggtc aagaaagaag aagaggacga ttacgacgac 240  
ttggacaacg ttccgttcgc actttccagg gctaagaagg gaaacgagaa gcataaaggc 300  
aacaatagca atatgaaggc tttttcgaaa gtcaagaaag aagtcagttc tgatgatgat 360  
tttgtcatgc c 371

<210> 29209

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-H4

<400> 29209

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cgtgccttg ccttcctaa tcatgtcagc gaatccaatc gaggcgatgg accagcaggg 120  
 tgcgggcggg gacgcggagg tgccggcggg gctgggtctg acggcggcgg agtacgagca 180  
 gctgcggctg acgggtggacg cgcaccaccg ttacgccgtg ggggagggtc aatgctcctc 240  
 gctgctggcg cagcgcattc acgcgccgtc ggaggccgtc tgg 283

<210> 29210  
 <211> 487  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-007-Q1-K1-C4  
 <400> 29210

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 acatttttgt agcacatact cttaatgata gggccaaaaa gtctgttttc ttgaatgggt 120  
 ccttcctatt taggggtgat atgtagtata actgttgctg ttgcactttt gtcacttggt 180  
 tcatttagtt tatggaattg tgccgttttc taatcggtaa tggtagattt tcatttcctt 240  
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 tttagttttt cttttttctt ctttggtttt tatttttggt tttgttttat gttttttttt 360  
 tttttatctt attatttttt ttgttttttt atttttttat tattttttat ttatcttatt 420  
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 aatttttt 487

<210> 29211  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-007-Q1-K1-C5  
 <400> 29211

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 atcaacatgg atggaaagcc tcaccttggt aaattccatt ggaagcctac ttgtgggtgtg 120  
 aaatgcttgc tcgacaatga agctgtgact gttggaggca cctgccacag ccatgctact 180  
 aaggatctat atgattccat cgcagctggg aattaccctg aatggaagct ctacattcag 240



actattgatac ttgaccatga ggataagttt gactttgacc tgctcgatgt caccaagacc 300  
 tggcctgagg atatcatccc gctgcatccc gttggactga tggttctgaa caagaacggt 360  
 gacaacttct ttg 373

<210> 29212  
 <211> 141  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-007-Q1-K1-C7  
 <400> 29212

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 atgaacaagg atggtaagcc ttaccttggtg aaattccatt ggaagcctta cttgtgggtt 120  
 gaaatgcttg ctcgctcattg a 141

<210> 29213  
 <211> 241  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-007-Q1-K1-C8  
 <400> 29213

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 atgatcactg acggtgagcg tctgtgcttt aatgcctata atatgtatac tcgtgacgat 120  
 acatgctggc tcgtgactga acctaccact gttgatgtca cttgtcatta tggttcggtt 180  
 gttgcatcat atgtttcttt tatacgatgt gaattactta ttattttgtt actttactta 240  
 t 241

<210> 29214  
 <211> 368  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-007-Q1-K1-D11  
 <400> 29214

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tcggaacacc tgcttgcgt ttctactccc agcatgctta tgagccgtgg tcgttccttc 120  
 ttctgtttct tgcttgcgt ttgttttcta attttttttt tattgtttct ttattttttt 180  
 tttcttcttt ttttttatta tttttttatt tttttttttc ttttttattt ttttttatcc 240  
 tttttattat aatttttttt tttttttttt tttttttttt tatctctatt ttttttatta 300  
 tttcttcttt tatatattct tctttactgt tttttttttt ctattctttt ttttttattt 360  
 ataatttt 368

<210> 29215  
 <211> 119  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D2

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<210> 29216  
 <211> 117  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D3

<400> 29216  
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 gcctctgcaa gggcatgaag ggtctgggca agggcagtac caatctctac cataagg 117

<210> 29217  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D4

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agagagcggc gaatttaca ctcactagt ggtgctggga catatatgtt caggatagat 180  
gatgaacgtg ttatagatgc cactcgggtt ggaagtatag cccgtctgat caatcactca 240  
tgcgagccta attgctattc acgtgccata actattcttg gagatgaaca catcatcatt 300  
tttgcgaaac gggacataga tccattgtaa gagcttgc atgattatag gtttttatca 360  
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<210> 29218

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D6

<400> 29218

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<210> 29219

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D7

<400> 29219

cccacgcgtc cgctagtgtc tcatttccag aactcaagtt tgatgaatga ggataaacgc 60

tgccgcccta tactcttcca ctctgatggc ccgaatgcag gagatcaaga accattccct 120

gtgggatcaa atgtccgttc tatgtctgta tgggtccatga ttttgagctt gtaattttac 180

tattattact ttgtgttttt tcattttttt tgtttttatt tcttttttgt tttaaagtta 240

tattattttt tttttttcta tattttactgt attttttttt attttttttt ttattttctt 300

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<210> 29220

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D8

<400> 29220

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tctgaggatg aggagcacat gaagaagggtg gaggccaaga actctctgga gaactacttt 180  
tacaacatgc gcattatgat taatgactag atgattgcgt tttatcttgt tgtctttgtc 240  
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tctatTTTTa ttttatttat attctTTTTa tttttctttt tttgtttatt tttttttatt 360  
tttatatat tttatTTTT ttttttttat gtttttttta tttctttttt aattttt 417

<210> 29221  
<211> 62  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-D9

<400> 29221

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gc 62

<210> 29222  
<211> 72  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E11

<400> 29222

cccacgccta ccacttggac taacactaga atgaaactta tctcgtggca tgtatctttc 60  
gagaactgct tt 72

<210> 29223  
<211> 294  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E3

<400> 29223

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ggctggagga ggcgtgcccc ggcacogtct cctgcgcgca cgtcctggcg ctcatggcgc 120  
 gcgacgccgt cgtgctggcc aacggccccct cctggccccgt cgcgctgggc cgccgcgact 180  
 gccgcgtctc cctcgtcaac tagaccaacc agctgccttc gtccaccgtc aacttcaccc 240  
 gccttgtcag catgttcgcc gtctagggcc tctccgtcag ggaccttgtc gtgc 294

<210> 29224

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E4

<400> 29224

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 gtcactgagg tgcgccgtgg agcttgccat ccctacggcg atctaccgcc atggcggggc 120  
 tgcctcagcc gctgagctgg tcacggcgct gtctctcccc tccactaagc tgccgttcct 180  
 ccgccgcctg ctgcggctcc tcgccgcgtc gggcgtgttc accgtcgaca agcagagctc 240  
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<210> 29225

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-C2

<400> 29225

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 gtggaacctg tagatcatac caaatggggc gctgccacca cccgaactcc ttatctgttg 180  
 ttgagaaggc ctgtctgaac accaacagct gtacagtctc cctgacagac gagagctttg 240  
 ggaaggattt atgccctgga gtcacaaaaa cacttgccat cgaagcggac tgttcttagt 300  
 gacgtacgga gtactaagta tctcgggtgtg catctagggt ccaagtatgc ccgtcaaaaat 360  
 tctaaaattg tagtgcttct tgcacggcaa tgctattgta acctggattt acccgctaata 420  
 atgtttccta aaaaaaataa attatttatt tttttt 456

<210> 29226  
<211> 380  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E5

<400> 29226

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gtgagatcgc gcaggacttc aagaccgatc tccgcttcca gtcctccgcc gtcgccgcgc 120  
tgcaggaggc cgtcgaggcc tacctcgtgg ggctcttga ggacactaac ctctgcgcca 180  
tccacgccaa ggcgcgcacc atcatgcccc aggtcatcca gctcgcgcgc cgcacatgg 240  
gcgagagggc ctgagcgagt cgagctcctc ttaccgcatg cggcgtcttt gttgctattg 300  
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ccttttttct tgttcttttg 380

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<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E7

<400> 29227

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tcttgaacta gatacagtat caatacaatc tagctttcaa ctttaacacc atggcatgct 120  
tgatac 126

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<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-E8

<400> 29228

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aagagacttg tgatatagaa ttgaatacaa gaaatgtcca catgcatgtt tatgcagata 120

caggtacaac catccattct atcagataaa acataaacag taaacaaata caccttacct 180  
 cctctgttag aatcagatctt gcatctgaac ctatagatct atcattggct aatgggggatg 240  
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<210> 29229

<211> 332

<212> DNA

<213> Zea mays

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<400> 29229

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 gctcccgaac ggtcgatctt tgcattggcag cagcagctgg ctccaagggg cgggagatcg 120  
 ctggaagctt cgtcagccgc gtcctcgccg gcaaggccgc ctgcccagg agggccgtgc 180  
 acgcctcggc gtacgacaag aacctggagg accaggtgcg cccggcgctc gtgccggacg 240  
 atgtgatcgg cagcgccggg agcccggaca agtactggag cccccacccc aagaccggcg 300  
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<210> 29230

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F1

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<210> 29231

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-F10

<400> 29231

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tcatacgtgt tcttgccggt ggcttggtga tgctgatgac tgttactcac t 111

<210> 29232  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-007-Q1-K1-F11  
  
<400> 29232

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cacggttggt gtcctgcttg ttatggagac cctgagtgc ttccttcacg cactgaggct 120  
tcaactgggtg gagttccaga acaagttcta tgaaggatgat gggtacaagt tcgccccatt 180  
ctactttgcg ctgattcgtg aggaagaaga ttgagatcgt cccatgtagc cgatgtacaa 240  
tctttgatgg cctttgttcc cggaacaaat cattttttca tctgttgtct cggatggatc 300  
ataaacctta gtccccttg tttagacatg ggacgaacag caccattttt ccttgtttag 360  
ctatgcatag gatttttggg tcggttggt 389

<210> 29233  
<211> 321  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-007-Q1-K1-A11  
  
<400> 29233

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agggccggtt cgccggcagg aaggctgtga tcgtgcgcgt gttcgaggag ggcacccgcg 120  
accgccccta cggccactgc ctgctgcgcg gcctggccaa gtaccccaag aagtggttcc 180  
gcagggactc ggccaagaag acggcgaaga agtcgcgcgt caagtgttc atcaagctcg 240  
tcaacttcac ccacctcatg cccactcgtt tcaccttta agtcgacttc aaagacgttg 300  
ccaacggccg gcccgactcg c 321

<210> 29234  
<211> 195  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3067-007-Q1-K1-A12

<400> 29234

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tggtacaaat gaccatttca agactgctct tggaacaagc aaccatctg ctctccgtga 120  
aactgttggt gaagtcctca atgtctcttg ggaggatatt ggcggctctgc agattgtcaa 180  
gagggagctg catga 195

<210> 29235

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A2

<400> 29235

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agcgtctcag ctactgcgaa ggagggataa ggggatggcc gggatcggac cgatcaggca 120  
ggactgggag ccggtcggtt tgccgaagaa ggcacccacc gccgccgcca agaaggatga 180  
gaaggccgct aacgccgcgc gccgcgccgg tgcggagatc gataccatga agaagtacaa 240  
cgctggtacg aacaaggcgg catccagcgg tacatccctc aacaccaaac gcctcgacga 300  
cgacaccgag aacctcgccc atgagcgagt tccaagtgat ctgaaaaaga atctcatgca 360  
agcaaggctc gataagaagc tgacacaggc acaacttgct cagatgataa atgagaagcc 420  
acaagtgatt 430

<210> 29236

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A3

<400> 29236

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cttttaatat tatatattta catggctctg tgttctgtct tttaatgacc tttttttttt 120  
tctctgtgct gtatattttt ttttttctt tttttatttt ttttcattat tttttttttt 180

tttttctttt ctttttggat tttattagtt tttttttttt ttttttctta ttatttcttt 240  
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 tttgattatt tttattgttt ttttgtctta tttatttttt atttttttta ttttcttttt 360  
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<210> 29237  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-A4  
 <400> 29237

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 gaagacatgg gcggcgctgg cggcattggac gaggacgccc ccgctggcag cggcggccct 180  
 ggccccaaga tcgaggaggt ggactaagcg gtttgggtgc agtcttgagc gtgctgcagt 240  
 tgctggctgg ccagtcgct gccgcgagtt atcgctgctg gtcggtgcgg tgtgtccgct 300  
 taaactttat ttgtgggtgg ctggtacttt tgtgggtggt attttttttg gacctcgtga 360  
 tagtcggtcg ggtccatggt atcgcggtta ctggcaaacc ttaagtata c 411

<210> 29238  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-A5  
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 gtctgctttg acaagtcacc tctcagctct tacattaaaa gagtcgcaa gtggcaatgt 180  
 ggaagaaata tgtggattaa cagcagctga aggttttgca gcatcaagtt cttccagct 240  
 tgcttggtgt aattctcagg aagagtcctt aaaagattca cttggtgcag ttcgtaaatc 300  
 aactcaagca gcagccagaa tatttcaagc ttttaggtgg gaatcattcc acagaaagaa 360

tgttattgaa tatggagatg atgattgtgg attgtctgat gaacgcacac

410

<210> 29239

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A6

<400> 29239

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acagaagaga tagccgaggt tgtcaagtca agtgtgtctt ctgacatggt caagagcaca 120

tatgagtcca tcaccaagg aaatcctatg tggaatgagc tgccagtctc aacaagcact 180

ctctatccct gggatccatc atctacatac atccatgagc ctcttactt caaggatatg 240

acaatgactc ctcttgcccc gcgaccggtg aaggatgcat attgccttct gaactttggt 300

gacagtatca caactgatca catctgcct gccggaaaca ttcaccaga cagcgcagct 360

gcaacatatc tgaaggagcg tgggtgtgaa aggaaggact tcaactcata tggtagccga 420

agaggaaatg atgagatcat tgctagggga acctttgcaa catttcgctt 470

<210> 29240

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A7

<400> 29240

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gaccagcag atgtgggact ccaagaacat gatgtgtgct gctgacctc gccacggctg 120

ctacctcacg gcatctgcta tgttccgtgg gaagatgagc accaaggaag tggatgagca 180

aatgctgaac gtgcagaaca agaactcttc ctactttgtg gagtggatcc ctaacaatgt 240

gaagtcgagt gtgtgcgaca tcccacccat cggcctgaag atgtcctcca cattcatcgg 300

caactcgacc tccatccagg agatgttccg ccgcgtcagc gagcagttca ctgccatggt 360

caggaggaag gccttcttgc attggtacac g 391

<210> 29241

<211> 256  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-A8  
  
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 ggggcagcat acatgatact caacgaactt tatgtgcgct agttatatta tactaacaca 120  
 ctactttaca tcatgtgctc tatcaatttg taagatgata accaattaaa tttatttact 180  
 aatgcttacc tgtcgctata attatattaa ttatctaaaa tatttgtatt ctatgaattt 240  
 gtattcaatt gttttt 256

<210> 29242  
 <211> 352  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-A9  
  
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 ggacgagtcc gtgctctgga ccgagagccg cgacgtcggc aacggcttcc gctgcgtccg 120  
 catggtcaac aacatctacc tcaacttcga cgccttcac ggcgacaagg cccacggcgg 180  
 cgtccatgac ggtaccgaga tcgtgctctg gaagtgggtg gagggcgaca accagcgtg 240  
 gaagatcctt ccttgggtgaa cgaacgaatg aaactactag ctggtaccct aataataatt 300  
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<210> 29243  
 <211> 178  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-B11  
  
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 tagggcgcta gctcgtgcct cgtgggtgtg gtgaataaaa agattcatgt cgatctctgc 120

ttactgttat cgtatctgta gtaccttgag tgatatgaac aatatgtatt atttacca 178

<210> 29244

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B7

<400> 29244

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ttaagatctg tgctaaccat ctggtggtgg cgacgactaa gatgcaggag cacgcatggt 180

gcgacaagtc gtgcgtgtgg ctgcgtctgg acttcgccga ctgtgagctc aaggaggaga 240

tgtttgctat cacgatttgg atctgtcgag aatagctaga agttcaagga cactgttgaa 300

gagatagctg aagagcatgg taagac 326

<210> 29245

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B8

<400> 29245

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tctgccgccg ctcggtctgt gttgaatctt tccagctact agtggtcagc gctccaagaa 120

taagggtcct gggatccctg tccttcagca tccccaagtt ggagattggt ggcaccgtct 180

ttcaaccac cgtgcgcgt gtcaaccgtg tggggcctga cgatgttatc atggagaagc 240

gcttgctgat gcaggccgtc atgctggcga cgactctgcg aaccgtcaag attttggcgc 300

tggaagatgc agattccatc gacatcgtca gcgactactt gaagtgtttt ccatgcttgg 360

aaaagctata catctcggca tcacaaggat acagaagtgc tggaagcta 409

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A10

<400> 29246

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ccggaccagg aggacgcgtc ggtgctgtgg actgagagca aggacgtggg caaggggctt 120  
cgctggatcc gcatgggtcaa caacac 146

<210> 29247

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B9

<400> 29247

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caaactcacc ggggaggagg gagtgggcga ccggcgggcg cgatgggttt catcatggag 120  
ttcgcagaga acctgacct ccgtttgatg gaggacccgg acaagcgcga ccaggttcgg 180  
cgggagcatg cctacaagat gaaggagcgg tgcgagcgca ccaaggcggc gtggagcctt 240  
cctctgcgct cctacagctt ctggaccttc gaccgcttca actcgcagct cttctgggac 300  
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<210> 29248

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-C1

<400> 29248

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ctacctcacg gcatctgcta tgttccgtgg gaagatgagc accaaggaag tggatgagca 180  
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gaagtccagt gtgtgcgaca ttccacccat t 271

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<211> 456  
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 <213> Zea mays  
  
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 ataatggcca tcttgatctt agatgggtca ggttgtcata tgtcctataa atattatcta 180  
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 taatggctctg tatttcatac gaatgtaacc tttcaacagc tttgattgat attatgtacc 300  
 tctacagatg gcagcagtg aaattctatg tgtgcaacta gaaccaagtt accgaccggt 360  
 gattagcgcc tattgagctc aatatgatat tacagtttat ttgtgctcaa ccaccgatgg 420  
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 <211> 296  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-006-Q1-K1-G2  
  
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 gctgaactcg gcgatggttc tcagcgacac tagaagatag gttgatggtc agttaggact 240  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-006-Q1-K1-G4  
  
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gaataagtct tgcgaattca acacaggttc tacgaaagtt gctttggcta aggaacgact 180  
gcaatgtcga gaaacgacac taatttcttt cagcgcttcc cactaccgtc gtccaacttg 240  
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<210> 29252  
<211> 398  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G5

<400> 29252

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acaaaaggga gatatcgaga tttcttacct taatactaaa gatcaattgg ccgatatctt 180  
taccaagcct cttgatgaac aatcttttaa caaacttagg catgagctaa atattcttga 240  
ttctaggaat ttcttttgtt aacttgcact catagctcat ttatataact ttgatcatat 300  
gctatgacta atgtgttttc aagtctattt caaaccaagt cataggtata ttgaaaggga 360  
attggagtct tcggcgaaga caaaggcttc cactacgt 398

<210> 29253  
<211> 77  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G7

<400> 29253

cccacgcgtc cgaaaaaaaa aaaaaataa taaaaaaaa aaaaaaagca aaaaaaaaa 60  
agaataaata aaaataa 77

<210> 29254  
<211> 310  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3067-006-Q1-K1-G8

<400> 29254

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gcatccacta ccaccgccgc cgcctccagc ggtgggcttg accttcaagc tccaccgct 180  
cgtcatcggtg aacgtcttcg accaccacac ccgcgtcaag gcccaggccg cctgctccgg 240  
ggacagctct tccccctcct cgtccgcccc gggggccggg cagccgccga ggtgttcgg 300  
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<210> 29255

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G9

<400> 29255

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aaggagtgtg ctgacctttg gcccaggatt gctagtgcag caaatgctat tgtctgatac 180  
tactggttga gaatagttta ttgtgatcca ttttaacctt ttctgcactt caacatttgt 240  
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<210> 29256

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H1

<400> 29256

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tttgttacct tgcaccatag tatatgcaat ttggcagagc cacctagtga gactgatgtc 180  
tacagttttg gggttatggt actcgaaata ctcagtggaa agcggcctac tgatgcatcc 240

ttcattgaga agggaactaaa cattgttgga tgggttaaatt ttctggctag tgagaaccgg 300  
gagagggaaa tttgtctcct gaactgggaa agagtgcaga ctgagacctt atatgctc 358

<210> 29257  
<211> 122  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-006-Q1-K1-H10  
  
<400> 29257

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ct 122

<210> 29258  
<211> 390  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-006-Q1-K1-H11  
  
<400> 29258

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tcttccaatg gagctgacaa ttcaggtccc accaaggata ctgagtagct gaactgcagc 180  
ttgctgcata gctaaccaca aaggcccaag ttattacttt ttgcagacct attttcagtt 240  
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<210> 29259  
<211> 435  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-006-Q1-K1-H12  
  
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tgctggagcc gatgtggtcg agtgcgcgtg tgtcatcggg ctcccgaat tcaaggattt 180  
gtacaagttg aatggaaaac ctgtatacgt gctgggtgag tctcgtgaat aatcggagaa 240  
atgacaactt atgctcaggt gtcagagtga tcagggatat tggctgttta ctcccttgcta 300  
ctgcgattga acagtggagg gacgacatgg acaaggacaa gtatattcgg tgcatacta 360  
agtcttggtg aggggagaga ttgtagtgtt ttaggctgag tagtgaagaa cctgtagttc 420  
tgcacggaac atgat 435

<210> 29260  
<211> 313  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-006-Q1-K1-H2  
<400> 29260

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aagaagtcta tattgatcca tcttcagttc tctttagggt taattctaag tgggttgtct 180  
accagtctct cgtctcaact gacaagcatt atatgctgaa cgttattgcc attgagccat 240  
catggcttac ggaagctgca ccacattttt atcagttccg aacattcaat cctgcttccc 300  
actaacatta ctg 313

<210> 29261  
<211> 404  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-006-Q1-K1-H4  
<400> 29261

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ccaccctgag aaaggagatg ctctgtacgc tatggagctg gctctggccc tggaaaagct 120  
ggccaatgaa aagctgcaca acctgcatgg tgtggcaaca aggtgcaatg atcctcagct 180

gacagacttc atcgagagtg agttcctcga ggagcaagtg gaagccataa acaagatctc 240  
 caagtatgtc gccagctga ggagagtggg caaggggcac ggggtgtggc acttcgatca 300  
 gatgctgctt gaggaagagg ccttaaaaga agaacggaca gatgaatgaa ggaacaagt 360  
 gtgtaatgtt gatcaggcgg aggaaaaatg ggtcaactga caac 404

<210> 29262

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H5

<400> 29262

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 atagaggacg cagagtgaga agatgcgacg aatgttagat tgataaatgt aatgtggttc 120  
 tgacatctat gttcgaatat gccggagaca aggagatcta tcagatcgct ttgttctctt 180  
 gagtgatgaa acatgatggc gtcgggccaa ggggtgaagct gctttcagtt atgctatgct 240  
 gtcattctgc tgaatgtata tcagatttct tgaacaatac ttcttgtctc attgcctact 300  
 atcacggaat aagttatatc aggggaaatt gaccgggtct tttttttccc gt 352

<210> 29263

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H6

<400> 29263

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 ctcaccggcg ccgccaagtg acacgacctt gacagtcaat atgctctttc aggagatggg 120  
 cccagttact ttacatgggt ctgttggaca caatgaagcc atccatatat gctattaaaa 180  
 atcctgctag tcattatggc tttaaactgt accatgtctg ttctattttc agctaggcag 240  
 agcatgttct atttacagca ggccagcaga caccaggcag taatgtgatg tatgagtcaa 300  
 ttataaggat ggaaatgttt tttggcagct tttctcagtg gatcagtatc accggaaaaa 360  
 ctttttggac acctagatgt cgagagatgc ccattccctg aggaatttca atggag 416

<210> 29264  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H7

<400> 29264

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aaacaccatt ttggaggcgc aggggcaact gagcaacact atgtattgac tatcttagag 120
atactacagc atatgtcctt tgtaaagcag gttgagacta tcattctgca gttcttatta 180
tataggatga ttacgaaggt aacatgtttg ggacagtaac atttgcttga aatgtatata 240
gtctacaaca agaataatgc cagcattctt gaaatgtatc gcctaggaga atgctagcac 300
ttacgggtgt gacgaacgat ctgctgtcgg ttgagatgaa aaggcggtcg ccttctatta 360
aggatgtaaa tggtaaaaa ggatgtaaaa ggtacagata ttatc 405
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<210> 29265  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-H9

<400> 29265

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gaaaatgcag atttaagaat gatgcgagtg atggaggcct atcaggtaac tttgtgtact 180
atagttgtgt gtttctacaa gtgcgtatgg atgctatcat aataaccacg atcaaacatc 240
atcaaacaac tacaatttac agtgcaagtt tgggtgcgcaa ttggtggtga tattatcttc 300
tagacatata tagatttatt aatttccctt ttttagtaga cattgcctat ttttttctac 360
aattgagttt 370
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<210> 29266  
 <211> 467  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-A1

<400> 29266

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gtgatggtga caatctggaa gggaaaggtg ttggtgctcc atttgagcag gggaaagggg 120  
atgattcatc gccagcggag gtgcattgga gcagcatggt tcatcagact ggtggtggca 180  
tcagcatcgt ggactagaga ggttgcgctt atgtgagagc ctagagttca tggaccgatg 240  
gtatgttgag gtgggatggt aggtggtatt attttgtttt tttctttttt tttgtttttt 300  
ttttatattt ttttatttta tattctactt ttattattat ttatttctat ttacttttat 360  
ttacgtaata tatcttctta ctttttttat tttcttttct ttttattatt tttttttttt 420  
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<210> 29267

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-006-Q1-K1-G11

<400> 29267

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ctcattgctg caaaggaaga ggaggtcacc gaagggaaga ggcttcctct cgaggaggtg 120  
gaagagaacg catgcatcag ccactgaaca gaacaagcag gcgatttttt tgtgtggatg 180  
gcgtctgcc aaaaaggatt gaatcgagga gtgtgctctg gttgtgaagt gataactagg 240  
ctaccacatg ttcattttca aaagttttcg tgtgtgatcg tgatcagggg tgaaactgtg 300  
gtttcagcca acaaacttgc aagttctatt gcttcttccc acttttttcc tttatatata 360  
tnttggatcg gttacagaac atggtttatc cagtgggatg ctgatgaaag atgctaagtt 420  
cgcttaaaat aat 433

<210> 29268

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E4

<400> 29268

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gtacgtgagc ccggccgaga gcgagggaga ggcattggctg ctccgaagct cgcgacgctg 120  
gcgctggccg tgctcctggc ggcgaccgag gtggctcccc cggccgcggt gcgcgcggcg 180  
atgtcgtgct ccaccgtgta cagcacgctg atgccgtgcc tgccgttcgt ccagatgggc 240  
ggggccatgc cggcccagcc gtgctgcggc ggcattccga gcctgctgca gcaggccaac 300  
aacacccccg accgcccagc catctgcggc tgcccaaga acgtc 345

<210> 29269

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E6

<400> 29269

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gggatgggac agaaggacgc atatgttggc gatgaggcac agtctaagag aggtattctt 120  
actctcaagt acccgattga gcacggtatt gtgagcaact ggtatgtcat ggagaaaatt 180  
tggcatcata ctttctacaa cgagcttcgt gttgccccat aggagcactc tgtgttgctt 240  
ac 242

<210> 29270

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E7

<400> 29270

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atatcgttcc ttctaccctg caaggcaaga ccggttcatg cagcgatggg tagactcaat 120  
gactgaccct cgcattgccc atgaacaccg taccatt 157

<210> 29271

<211> 348

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-006-Q1-K1-E8  
  
 <400> 29271  
  
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 gttgaagtgg ataattgttc tcatccttct aagactgtga agccacttga tggtcctcag 120  
 tcagattcta ttacagagaa taatcagcct tctccataag ctacccttaa tatccagaac 180  
 aaagtgcaaa gtagttccac cagaagctgc aagaagggtc atcatatgtt gcaccttttt 240  
 ccttgctagt agtcattcct tgatacataa atgctnacta ggcccaaacc ttcaattgaa 300  
 tactttctcaa agtatgctcc atagagttaa tgtactctgg atcccttt 348

<210> 29272  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-006-Q1-K1-E9  
  
 <400> 29272  
  
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 tcttcaagga agaaaagaag ctgaaccatg gggaagagaa agtcagctgc taagccacct 120  
 cctaagaagc ggatggacaa gcttgacact gtcttttctt gccattctg caaccacggg 180  
 agtagtggtg agtgccgaat tgacatgaag aatctgattg gcgaagcatc ttgtagaatc 240  
 ttgcaggaaa acttcaacac aactgttaaa gcacttactg agcct 285

<210> 29273  
 <211> 388  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-006-Q1-K1-F1  
  
 <400> 29273  
  
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 agctgcttga aataattgac gccagtgaat tgccggaatt ccttggtggc acttgtacct 120



gtcctgaata cggaggctgc ctttaaggctg aaaagggacc atggaaggac ccaaacatac 180  
 ttaagatagt ccaaagtggg gaggttcatt gtgctcgtca aattgtaact atttccaatg 240  
 gtgaagaaaa atttattact tatgccaaac cgaagcacca ttcaatgcga gggagtgcga 300  
 catcaactgc tgagtctggc tcataagctg acgatgctat ctccccaaa gctctcagag 360  
 gttacataca acatcctaag ttgacccc 388

<210> 29274  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-006-Q1-K1-F10

<400> 29274

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 gccgcctgct attcgccagc gcgcacatc atctcctgct cagctaccac cacctcctca 120  
 ccgtcgtcag cgcgcacgct gcgcgtcgcc gtagtggggg gtggccccgc gggcgcgctg 180  
 gctgccgagg cgctggcctc ggcgggggcc cggacgttcc tctcgagcg cagccccgcy 240  
 ggcgccaagc cctgcggcgg cgccatccca ctctgtatgc tggacgagtt cgccatcccc 300  
 cgggacctcg ttgaccgccc cgtcacccgg atgcgcgtgc tctccccctt caacctcgcc 360  
 gtcgacttct cccgcgcgct gccccccggg gcgcacatnc ccatgctccg gcgcgaggtg 420  
 ctcgatt 427

<210> 29275  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F12

<400> 29275

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 ggggctaatac ttgttcttgt atgtagcgca ttgaaacaag tactaaagga aaggctcgtga 180  
 tttggtttgc gtacctttta ttcacttccc tatattatth ttaaaagcac ttcgtgattt 240

tcagatgaat agcaatgtct gcatattagt gcgttcattg atgaatttgt ttctaggttt 300  
cctctcatac aatataatgg tgtcaaagcc tgtagtgctt gtcttcctgt tggtaggtact 360  
cataatcaca tcccagtttg aatggaagca acagcttgta aacgagttgg aatctacggc 420  
tcgcaaccag aaacatgttt caagtagaga 450

<210> 29276

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F2

<400> 29276

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cacccatgac tacaacgtgt tcagcttcca cccggacaac tcgccgtgcc acggcttcga 120  
ggaggtcctc gcctgctacc gcaagatcgt gccgcacctc aagctttccg ggccgacgtc 180  
gttcgcgccc atcgtggagg cggccgtcga catcgtggac cggagcgggg ggagtagcca 240  
cgtgctcgtc gtggtcgcgg acgggcaggt gaccaggagc gtcgacaccg gtgacggcga 300  
cctcagcccg caggagaaga gaacggtgga ctccattgtc atggcaagct cctacccgct 360  
gtccatcgtt ctggttgggg tcggg 385

<210> 29277

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F3

<400> 29277

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tctggtgaat ctcaagaata aggggataga tggttcaagg gtggagaagg ttttagaaag 120  
tgtgcatatt gcatcataca agaacacagt gcctggggat gttttatcta ttgtgccagg 180  
atgcatcatg atgggaaccc cagctcctac gtcgagagga tttgttgaag aagatttcgc 240  
taaagttgct gacttcttcg atgcagcagt gaatctggcc ttgaagatta aggctgcaac 300  
gaccggtgga acaaagctta aggtctttgt tgccacttgg caatctga 348

<210> 29278  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F4

<400> 29278

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gcgtcgcgcg acccgccag atctcgcca ccctgcgcg cgccatgga taacttgatc 120
accctcgtca acaagctgca gagggttgc acggtctctg gagaccacgg agaggagagc 180
gccctccga cgtcttgga ctgctgccg gctatcgccg tcgttgagg acagagctct 240
ggtaaactcat ctgtgttgga gagcgtggtt gggaaggatt tcctaccgag gggttcaggc 300
attgtaacct gtcgtccgt ggtgctgcag ctccacagaa ttgatggtga cagggaatat 360
gcagagttca tgcattctcc gagaaaaaga ttacagatt ttgctg 406
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<210> 29279  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F5

<400> 29279

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gaccttgaaa aggcattctca gcaattttca aagaacctgt acgagttcaa ggttcatcca 120
acaacattga tcccatagca agttgggaat atgtatacag tatcattct atgctgctct 180
tgcategggt atacataata gacatgaaac tctggcaggc cagaggattg ttatgttttc 240
gtatggcagt gggttgacat caacaatgtt ctctttcaag attaaagaag gccatcacc 300
tttcagcttg cttaacattg catacatatt ggatgtttcc aagaaattta aggcaagact 360
tgttgtgcat cccaagaaat ttatcga 387
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<210> 29280  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F6

<400> 29280

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tggtacaata aacaagaata acaagacatg gaatgttcca gtggaagatt ttgatatggc 120  
ggttgataca aatatcaagg ggacagcaaa tgtgcttcgt cattttgtac cacttatgat 180  
agcgaggaga catgggatta taattaattt aacctctggc tggggaagat ccgctgctgc 240  
agaagtcata ccgaaagcca ccaaatgcat tatagttgat cctttctggt gaatcaaaat 300  
ccttattgca tactaaattg cacgttgcca tttcagggtg ctccatattg tgcttcaaag 360  
tgggcgattg aaggcttgac acgctc 386

<210> 29281

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F7

<400> 29281

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gcgagcattg aagagctgaa gcagaaaatg gaggggcagt caaagggaat atcccctatg 120  
aactctgagt acagcagtgt gagcgctcag gtgcatgaga cagagggcca tgtcttgga 180  
cagatcaatc tgaacaacaa attgactagg acggctgaga actacccac actgtcagat 240  
aatatgagca ccgagcgaga agggatttcc agcaggagga agatcttcga gcagggtgcag 300  
aaagggtcgg agaattgtggc aagggttgga ctggagcttc agaagattca gtatgtcttg 360  
ctgaagcttg atgaagagca cgagtacaga aggctcaaag tctctgataa gcgcac 416

<210> 29282

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F8

<400> 29282

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agagtgcagg agaagctgca ggaggagctg gaccgtgtcg tcggtcgcga ccgggtcctg 120  
tcggagacgg acttcccga cctgccttac ctgcatgccg tcgtcaagga gtccctgcgc 180  
ctgcacccgc cgacgccgct gatgtctccc cacagggcca gcgccagcgt caagatcgcc 240  
ggctacgaca tcccgaagg cgccaacgtc gtcgtcaacg tgtgggagggt ggcgcgcgac 300  
cccgaggtgt gggacagccc gtcgagttc cggccgagcg gttttctc 347

<210> 29283  
<211> 326  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-F9

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caaggtggtg tcgtacagcg tggaggacgg cgagctggcg gacttctaca agaacttcaa 120  
gatcacgctg aaggtgactc cggccaaggc ggacggcgag ggcgggcgccg tcgtcagctg 180  
ggccatggag ttcgacaagg ccaacgacca ggtgcccagc ccggacgtca tcaaggagac 240  
cgccaccaag acgtttcacg acctcgacga ctaccttctc aagaactaga ttgagcgaca 300  
actggagatg gtccagtaca gtacag 326

<210> 29284  
<211> 160  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-G10

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tccttttgag aattgggcaa ttgatgtgtc gttttctggt 160

<210> 29285  
<211> 394  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-E3

<400> 29285

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ctctcagctt tccgcatcgt cgacagcaca gacatcatca aggagacatg ggtgctcacc 120  
gaggaggcca agggctacgc cgccaagggc tccccgagg cacagctcgt cgccgcaatt 180  
tcaccggagg gtgcctctaa ggacgcactc aaggcaatat tgggagatgc ttctgatgtt 240  
ggcatgaaag cagccgcgag gaacaagtgg ataggtttcg agaaggggaa taaggactta 300  
gtccttatga aggttgagag cgtaaaggat gagctgcaag agcagcttat aagactagag 360  
aatggtgaag ttgtttctga taaagtgatc gatg 394

<210> 29286

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C1

<400> 29286

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aagttgacaa tgaaaggatg gaactgctgc tgtcccaact gagctggtag gacatcacccg 180  
agctcattgc cgcgggcaga gagaagtttg cttcagtccc atgtggcggc ggcgggtgtgg 240  
ctgttgccgc aggtgcacct gctgctggcg gagctgctcc tgcagctgat gcaaagaaag 300  
aagagaaggt ggaagagaag gaagaaagcg atgatgatat gggcttcagc ctcttcgact 360  
aggttgacac gtcacacag tattgggtcc ggcagtgaaa tcaaagggaa ccagagtcac 420  
g 421

<210> 29287

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C10

<400> 29287

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 ttctgaggaa ttggacacat ggctaatcca tcaaacagtt tggttctgaa ggttctatca 120  
 acctctccat cagcttattc a 141

<210> 29288  
 <211> 257  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-006-Q1-K1-C11  
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 atttgaggga gcctggacgt ccaacccttt gatctttgac aactcttact tcaaggagct 120  
 tctgagcgga gagaaggaag gccttctgca gctaccaagt gacaaagccc tctctctga 180  
 tccatccttc cgcccacttg ttgacaaatc ccaattctga aagcttcagg tgggcctcgg 240  
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<210> 29289  
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 <212> DNA  
 <213> Zea mays  
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 <213> Zea mays  
  
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cgcttcaggc ccttgttctc aacgaaaaac cttactttta ctaggcggga tacgacaaat   180
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tgtcatgcaa atccatgatg tatgttttac gcaagccttc aaagcatttt gagacgttgg   300
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ctgaggaagc gagaagcaca atcatgaact tcttccgcat accactcaac ttatttgttt   240
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ttggagtga ctagagatgg tgaatgtccc tcctctggag gatgccatgg accctatttg 180  
tttacaataga actgccctgc tgttaaactt ttgctacttg gcgaccagat tttttcagct 240  
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<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D12

<400> 29296

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aataatattt aattttatttt tt 142

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<213> Zea mays

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<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D3

<400> 29298

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cttgtatgta atgttgtcag gc

82

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<211> 105

<212> DNA

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<400> 29299

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gggcctgggtg ctatgacaag aaaaggcgct aatactgttg ataga 105

<210> 29300

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D6

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agtgc aaagt ttcagaataa cattacaaat aggggtgtttg tagtagatac cactgtgaaa 180

aagagcaatg actaccctgt tggacctata gt 212

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<213> Zea mays

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gcacccgcgg agacgcggag cctccactcc tgatcctgtc acccaccgtc ttcgtcgggt 120

ctgttgcttc ctatatcacc caccgcctct gaagaagaag acgcggattc gagggtaggt 180

aactgctgaa gaagaagatc cggtagcgag aagacgcgga gcagtactta tccgatctgg 240

atgttggtta ggttcactct gatttgaacg gtaatctcac tgataacgag ttcctgggat 300

gaggaagctt gtcaattttt

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<211> 293

<212> DNA

<213> Zea mays

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ccagaaaagc ctacacggca cagcaacatc tcgcgcggtc actggtactg actggcaagc 180

tggccttcct tgacgatgta gttctgcacg ggggaagtcc cgcccttgaa atacctattc 240

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<210> 29303

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B8

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acccacggc gtctggtgat tccgacaagt ccaagtccga ggtgaacgac taggacgagg 240

atggtgacta gtgatgtatg acggatgaaa ctctgtccaa gtgtttgcag tcagggaaaa 300

aatctcgtcg ttgtcggcct aaccgggttt tctcgaagga ctttctagat gcatgttatt 360

agtgcgtct tctgagtagt ttccttgcaa gtgtcgtccc gtc 403

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atctctctgg ttcttctttt agcagcaggg acgcacaaca caagaaaagg tccggttcaa 180

gaggctcttc tggtgggttt ttttagaatc ctcaagagaa gcgtgttctt gggttaggat 240

ttttttctca cctcataaca cctctcctag gaggaacaga gatccagaga accttttttc 300

tcttctggat ccttgccgcc ttttggcgtt cgaaaggggg ttgttttgca ataccctctc 360

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cagagctggt ttttc 435

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<212> DNA

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aaggtegtctg actgcccaca gctctcctag atctctctga tctgggtctgt tccgcccgcc 120

tccctccgtc atcgtcgact cccctcgtt ccgttccttt ggatctgaat aagatggtgg 180

tgatctgagt ggtggtctta gtttatcatg tatcgtcgc agtttaattt agcggtttag 240

gtgtggatct gtgaacccca tggcgctct gcttgattcg tgtttcacct gttatgttct 300

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<213> Zea mays

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tatttttattt tttattaatt ggtttttctt tttttaaaat tttttaatta ttatttcatt 240  
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ttaattattt tctttttata aattttttta ttaaattttt gcttattttt tttttttttt 360  
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caagcacatg tccaaggatc agccggggcc ctcggggaag gctgtcgcgg gggccgcggc 240  
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acgattcgaa gctctctctg ctgcgagcca tggcgaagaa ttaccaacc gtgagcgccg 180  
agtacagcga ggccgtcgag aaggccaggc gcaagctccg cgccctcatc gccgagaaga 240  
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<210> 29309

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gattcattct tcacgcgaag aaaactgcat ttattgttga gcatgatttc atcatggcaa 180

catacttggc tgacaaggctc attgtttatg aggggcgacc ttctattgat tgttctgcc 240

atgcaccaca gtcttttagta tccgggatga ataaattctt atcgcatctt gacattactt 300

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<223> Clone ID: LIB3067-006-Q1-K1-A2

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cccagtcgga gccacaacct aaaactaagc cggagcccca tatgcagaca ctgaccagc 180

cagaacctaa accgaaacct atgccacatc cagagccaaa gcctgaacct taaccaaagc 240

ccaacctga acctcaacca atgcccaagc cttaacaaa atccaaacca gagccattgc 300

ctacaccgaa gcctgaacct aagcccgaac ctaagccaga gcctaagccc gaacctaaaa 360

ttaaatcaaa gcccaaacct ggacaaaaac cagagcctat agcagagcat 410

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 acatccgcta ttatatacct cctgacagcc taaacctgga gaacttgctg gttgaggaaa 360  
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ctgtcataac tattgtgcat ttttggacgc tatatgtgta gccttgatat gaatagattt 180  
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<211> 440

<212> DNA

<213> Zea mays

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gctgagagta acgctgatgt gaaaggcttg gacgtggaca acctctatgt ttcacacatt 240  
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ccttacatgt gcttcccttg ccacattgag ctgattctgt cagagaagga agagcctgtg 360  
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<211> 406

<212> DNA

<213> Zea mays

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cgagactggt gtaagccgga ctcaaatgc gccgccctgg tggatctcct ggagtagggc 360  
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<211> 450

<212> DNA

<213> Zea mays

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tctttgttat ggagtaatgt tgtaatggtt tttctgtttt acaaatttta gctattttgt 240  
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aaagagaaac ttagccttgc ctttcagatt aaactagagg agacatgtat gaaaatggct 420  
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<210> 29320

<211> 411

<212> DNA

<213> Zea mays

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actactggcc tgatctctga tcaaacatac aagctgctga atgttttctg tgactacgag 300  
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<210> 29321

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B3

<400> 29321

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tcgcggacgc gtgggaaaaa ataaaaaaaa aataa 95

<210> 29322

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B6

<400> 29322

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tattcatacy cggatcatata gattcagcta aagagaggtt aacgacattg ctagatgcac 120  
ttaagaatga gtctacatgg catgtgtaat ggctcctggg cttgtctata ttgtgggcac 180  
tatcaagtat gggtgagcta aaaagtgcac ataatatgtt ggattcattg aattcaaggg 240  
tacgtttaat ggacaggaat ctgttgcaag ctttgcaaaa ggcaatctag ctggctgatg 300  
ctgctt 306

<210> 29323

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B7

<400> 29323

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cgaccaccac tggccacctg atctacaagc ttggaggtat tgacaagcga gtgattgaga 120  
ggttctagaa agaggctgcc gagatgaaca agcggtcatt caatgttgcg tgggtgcttg 180  
acaagctcaa ggctgagcgt gagagatgta ttacaattga tattgccctg tggaagtctg 240  
agaccaccaa gtactactgc actgttattg atgccccggg acaccgtgac ttcacaaaa 300  
atatgatcac tggcactttc caagctgact gtgctgttct tatcattgac tcaaccac 358

<210> 29324

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-A10

<400> 29324

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tgaacatgat tggagtgccg tcgacgagcg agtacgatca catggcccct tttgttgact 120  
cgagaaactt tcttcaggtg aacatgcagc agcagcagcc ttagcactac ttccatcaac 180  
tgcaaccaac gacccttcaa ctcgatgat gtaatttaga atcttttgcc aacaattca 239

<210> 29325

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-G3

<400> 29325

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gtgtgggcta gccgctttgg gcgctggcg gcacagcggc accgacgcac cgtgggtggc 120  
tgggtggcg tggcactgcg gcagctgggc gcaggcactg cggctctgcg cagccggcg 180  
ctggcactgc ggtctgcggc ggccggggcg cgacaggagc agccgagccc ttcggctctc 240  
tgcgctctct ccggttgctt cagagtctgc ctttagtgct gctggccggg ttgttgatcc 300

ataticgcaat cgncttgacc ctgagatggg acaagcactt atatgcacta aaaattggat 360  
tcgtgcatca agaaaagatt cagtaattat tcattc 396

<210> 29326  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G4

<400> 29326

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agagggtccgc gatgctgcta gagaagctgc tcttcgtgag atcaaggagc gcatcaagaa 120  
gaccaaggat gagaagaaag cgaagaaggc ggagggtgagc aagtcccaga agacgcagac 180  
aaaggggtgcg gtccagaagg gttccaaggg cccaagttg ggcggcggtg gtgggaagcg 240  
ctgaaagaac ttagtgctgt ttctcgacat tgcagtcgtt ccttaaccaa agccactttc 300  
gtagaacctg tgttgaattt gcaagactta ttcaagcgtt gcttgtgcgt gctaaatacc 360  
atggcaagaa gacggattta tatttatgcc tg 392

<210> 29327  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G5

<400> 29327

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tccgcgcaga agagaacct ctccaagtgc caccaagaga tgtagcttta aaggagctc 120  
aggccgctgt tcaatacatg gctgaatatg ttgccaagaa agccacaagg tcacaaccga 180  
tgaagacaaa gaagacctgg gctcagtttt gctttttctc ccggcctaac aaaagaaagc 240  
acgaccgaat agacaccgcg tcgtgattca ctgtgagact gaactgcttg ttcctcaact 300  
ctacacttct gaagagaact atcgggtgca tcgccttcga tcgctaccat tgtgttgtat 360  
gggtcaacaa gatgtgatgc ccagaagctt ttccttgagc aatgctgcag 410

<210> 29328  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-G6  
  
 <400> 29328  
  
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 aacaaggctg tctcgaagat tggacagcac atgtctggtg gtggctctgg cggctcgcaa 120  
 tcaggatctg gacctcaggg tggcggcgac caggcgccgg aggcagagta tgaggaggtt 180  
 aagaagtgag gctgccggag ttcaaggga ttgtaacggc ttgttttagaa gtagctcgct 240  
 tttttttggg aacgcacata gtcagatgtc tcagatgagg tgttaccctg gttgcaataa 300  
 tctatgaact ttcacctctt gtgttctcct gcagtgaac acgggtcaca acattgtcat 360  
 aggtcttatt gcgcatataa ccccttgtgc ccc 393

<210> 29329  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-G9  
  
 <400> 29329  
  
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 gaagacagct cagagctcac acacaggctc ctctcccccg ttgcgcaacg cgctttcccc 120  
 cacttcaccc gcctcggcgc catggctaag ctgcgctgg cgctggcgct cctcctcctg 180  
 ctggccgtgg cgctcgtccg gtcggccagc agcgggagcc acctggatct cgacctgggc 240  
 ttcctcttct ctggggaccg ccggaaggag tgccgcggga cgggtggccga gtgcctcgcc 300  
 gaggagtccg atgaag 316

<210> 29330  
 <211> 81  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-H1  
  
 <400> 29330

acaaggtgta ccactaccgg gcgtacaact tcaccatcaa catgttctgg tcgcccgttc 60  
 tgggtgcgcgg cccggagccc g 81

<210> 29331  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H10

<400> 29331

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 cgattatccg atcgaacaca caaggccaca agggactaac agcaattata gagcaccacg 180  
 gcgctggcac agatggacgt atccagtcac acggggccatt gctgctgata tacgacacga 240  
 gacacgagag gatagcaggg cctgacaag acccaaattgg gaccatgtcg aattattgcc 300  
 gcatgcacag aaaagctcta gttttcctgg gcaccttcat tagccacggc ttccttctca 360  
 accaccgacc cgcttggtt ctcttcggtt gtcgggcgct tctcagcctc agtgggtgctc 420  
 gcggtgct 428

<210> 29332  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H11

<400> 29332

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 ctggaagctt cgtcagccgc gtcctcgccg gcaaggccgc ctgcgagagg agggccgtgc 180  
 acgcctcggc gtacgacaag aacctggagg accaggtgcg cccggcgctc gtgcccggacg 240  
 atgtgatcgg cagcgccggg agcccggaca agtactggag cccccacccc aagaccggcg 300  
 tgttcggccc ggcggcggtg gaccccaagc tggccgctgg tggcgcgccg gacgcccggc 360  
 cggatgctgc aagaggcacg gtgctggacc agaaggtgtg gttccgcccg ctgaggacg 420



tcgagaagcc ggccc

435

<210> 29333

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H12

<400> 29333

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aggaaattgt atccggtggt tctcttttctt caaattaaac cacgcacatg cagctgccgt 120

acttttttga ccattgaagt gtttcgtccg tgaaaaaggc tctttttacc ttaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagggca aacaatttaa 240

aagatcaaaa 250

<210> 29334

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H2

<400> 29334

acctcttcaa ttgagtcagg tagatcctat agtggcatca ttttcagggtg gcgcagttgg 60

tgttatctca gctttaatgt tggtcgaagt gagaaatgtc aggcagcaag agaagaaaag 120

atgcacatat tgccatggga ctgggtactt gccatgtgct cgctgtcttg ctagtggaa 180

gttatggacc acaaagcact tttaatta 208

<210> 29335

<211> 287

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-H3

<400> 29335

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gcttcggctg cttgccttct cctgctctt cgcagtggcc actcctgtca gggacatcgc 120  
 cgatgatgcc tgctcgtcac aagtgaagg tttccagcac ctgaacaaca gctcggggct 180  
 ccacctgacg ctgcaccacc cgcagagccc ctgctccccg gcgccgcttg ccgtcgacct 240  
 ncccttcttc gcggtgctcg cccacgacgg cgcgcgcata gcgtcgc 287

<210> 29336  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H4

<400> 29336

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 gaggaggtca agctcaacac cggcaacgtg ttcgcggcgc tcgagtcctt caagaagaag 120  
 aagaaggcg acaaaggcaa ggcggccggg tcttccttca ggaagaagca cggcgagggg 180  
 gccgcgcagc ggcaagagcc accgcagaaa gagctgttct gggcgcccgc gccacttacc 240  
 accaagtcct gggccgacgt cgaggacgac gaccatgacg actact 286

<210> 29337  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-H5

<400> 29337

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 acgaacagtg cttgcaaaca ggaatgttgg accatgtcaa agagaaatta ctgtgtctga 180  
 acagctcaat ttggttactt ctgaagaaat atccaatatg gcaatggatg gagaagctaa 240  
 cactaatttc ataactagca tctaggaagg cagtaaagtt gagcttggtg gccaaagacca 300  
 agaacatgct gaacaaagcg ctatctgcaa tcaagtggca gaatcagtggt cattccatga 360  
 aaaggaaact cgaggtgaaa ctgaacaaaa aaagaacaa 399

<210> 29338

<211> 316  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-H6  
  
 <400> 29338  
  
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 caacccttac acgtttggtg gcaaaattgg ttaattcctt gcctttgact tgatctggta 120  
 gtaccaagga aataagcacg ggaaagatgc aagctttgtg tcgaacatgt gaaaaaaaaat 180  
 atatatgtat gagcaatddd tgtctttttt ttggggccag ttgtagctgt tactaccatt 240  
 aaacagtaag caaaactggt tgcattttta aaaaaaaaaa ataaatddd aattaaaatt 300  
 tataatddd ttatat 316

<210> 29339  
 <211> 174  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-H7  
  
 <400> 29339  
  
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 gggcttdttt ggtcaatggg atcggttccc ttggcattgg tcttgagatc catgcttccc 120  
 ttaatggcaa cccgccaagg gggaaaaaac ccacctaacc ctttgggaaa attg 174

<210> 29340  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-G12  
  
 <400> 29340  
  
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 ggaggcgtg ttccagttcc agttccagga tgagcaagga ggatgtgctc aagggtgcaga 120  
 ctttgatgct gagagtgaac atacactgtg acgggtgcga gaagaaggct aagaagacct 180  
 tccacaagat cgacggtgtc tatcagagca gcatcgacgc ggaacagggg aagggtgacg 240

tgctccggcct gctggatccg gacaccatca tcaggaagct caacaaggcc ggcaagccgg 300  
cccagctgtg gggctccaag cctggcgctc ctcagaacgg ccatggcggc ggcaaaggcc 360  
agcctaagga cgccggcggt ggcaagggcc attccaagga tgccggcggt ggcaaggccc 420  
aaaagggc 428

<210> 29341  
<211> 238  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-005-Q1-K1-H8  
<400> 29341

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ttacggaagc ttcccaggct ttcgtcaggc ttttctccgg caacgagcac cctgcacaga 120  
tcgtgaacct ccacacctca acgatagatg gcgggggttca gaagccttgc acccaagacc 180  
aggaacctgg tgggtggccgg gggactgtct ggcttcgtgc tcgggggtcta ctacttca 238

<210> 29342  
<211> 440  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-005-Q1-K1-H9  
<400> 29342

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taccaaagat ccatctgaag gtgttacagg tttgctaaaa ttcagctttt aaggaattcg 120  
atccgcatac ttgtacctgg tctattgtca ggacttatgg aaaatcaccc gtttctcgcg 180  
gaggtcagac agtgactctt gttggaacaa cactagtttt gttcggtggg gaagatgcaa 240  
aacggtgcct cttgaatgac ttgcacattc ttgatcttga aaccatgaca tgggatgatg 300  
tggatgcaat gtaagtacaa gaatcttgat tcttaatgca cacctaata gaagataagg 360  
ccattatttg tttcgtgaat ctttgcctat tgagcttaaa atgtatcttt ttaaaagctc 420  
ctagatttgg ttggcgact 440

<210> 29343  
 <211> 67  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-006-Q1-K1-A1  
  
 <400> 29343  
  
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 cgtgggc 67

<210> 29344  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-E5  
  
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 ttgacgacac gcttctggct cgatgtatat cctgtcaaaa aatttggtct gctgcatgaa 120  
 catatatagt gcgtcactgg atagctatgc acacgatgat atatcagtag gttcatggat 180  
 gatgggactg aatgcaactt acgtggatga tgaccggttg tgctgcagca ggtccagaca 240  
 agagaaaatc tgttgcaatg cttgagcgga aggcgtggct gctggcctgt agctgtacat 300  
 cctgatgaag atagtgcaca cctgtcattt tgtatacact gctttcgtga accggaaaag 360  
 gctactatcc agatagaaac ggcttgacc aaaaatta 398

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-E6  
  
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 tttgctcaca gctaactatc aagttgttta atggttgtag cgttgtccga gtgttgatcc 180  
 acttaaatat attcgaatag catatctttt tgacatggta tgctactggc atgaactttt 240

gcaagtcatg ggatggaaga tcatttttggg ttttgaaaat ctttactatg tgctttctcat 300  
 tggtagcatg ttgcacaaat gttctgatgt gttgctacca gagaaataag taatgttctt 360  
 gcctttcgtt tgccctgcatt ttgtaccctg tctttccct t 401

<210> 29346  
 <211> 63  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E7

<400> 29346

cggacgcgtg ggcggactcg tgggaaaaaa aaaaataaaa aaaataataa taagattata 60  
 ggg 63

<210> 29347  
 <211> 251  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E8

<400> 29347

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 aagatggcag cagctgggag acaataagcc acgaagatgt ccagggttca agcggttcac 180  
 ctgatggaag cgagccttcg gtcagcaaca aggtctgcga cggaagcatt ccttggaaga 240  
 gcagaaatgg t 251

<210> 29348  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E9

<400> 29348

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 gagaaagatc gagaagagag gagccttcgc ttttggactt gcaccgtcgt gatctgtccc 120

gcgaccacat gaggatccac ccagcatccc ccaccgccgg cggcaagaag gacctccggc 180  
gcttgccgca cgtgtacagc aagggtgctgg agctgcogct cccggcggac accgacgtcc 240  
aggtgttcga agggccagac gccttccact tcgtcgcggc gccggccgcc ggtgcgcgtg 300  
ccgccgccac cgtgcgggtg cgcaccgtca ggateccccc cggggtcacc aaggctcgtg 360  
tgcatgccgg agccgccgaa cgggccgctt acgacgacgc cgtcagcgac agcatggagc 420  
tcgacaggt 429

<210> 29349  
<211> 205  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F1

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attagctcac ttgaagatag gaagaggaag aggcaacgtg aaaaggaaga agatttggca 180  
gataaaataa gggaagaaga ggaaa 205

<210> 29350  
<211> 362  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F10

<400> 29350

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cgccttatgc aaccaaattg gtgaaagctt actctaagta gacatctaca gaagatgaca 120  
ctaccaatat aaactcatag gaagcttact atgataaacc ttactagtcc tataaaagcc 180  
caaaaatcta tgcacagact ctagacattc aattctacta atagaaattt agttcatgta 240  
tctgattaac gatatatgag ataacactat atagtcaacg tttcatctaa caattgctat 300  
tatttactaa tcatatatat tgaccattta gtttaacatt acttgttcac tatttcattt 360  
ta 362

<210> 29351  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F11

<400> 29351

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tacgtttgat tgcaacgtta tagttttttt atagggtaat ctaattttaa ttaattggcc 240
gtgtttttta aacttggttat ttggaaaaac cttgggtttc ccaaatttaa tggctttgaa 300
gaaattccct ttttagcaag ttggctaatt tgcaaaaggg ctctaactgt tcgcttttcc 360
aaaaattttc taagttaaatt tggcaattgg gaccctcctt ttaggggctt ttaaaccctg 420
tcgtttttgg tggtt                                     434
  
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<210> 29352  
 <211> 335  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-005-Q1-K1-F2

<400> 29352

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tgatgaacct tgggtgtgct actggccatt ctagctttgt catgtcctgc tcattcacta 180
accaggatcat tgcccaactt gaactgtgga aggagaagag ctctggcaag tatgataaga 240
agggtgatgt gtttccaag caccttgatt agaaagggtc tgctcttcac ttgggcaagc 300
ttggtgcccc gttaccaag cttaccaagt cttaa                                     335
  
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<210> 29353  
 <211> 393  
 <212> DNA



<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-F3

<400> 29353

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caacgtgaag aatgttgctg tcaaggatct caagcgtggg tttgtggcct ccaactccaa 120

ggatgaccct gccaaaggagg ctgccagctt caccttccag gtcacatca tgaaccacc 180

tgggcagatt ggcaacggct atgcccctgt gctggactgc cacaccttcc acatcgctgt 240

caagtttgct gagctcatta ccaagatcga caggcgctct ggcaaggagc ttgagaaaga 300

gccaaagtgc ctgaagaacg gtgatgctgg tatggtgaag atgataccca ccaagcccat 360

ggtggtggag acattcttag cgtattctcc cct 393

<210> 29354

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F4

<400> 29354

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aaagatcccc aaacctaca cccgcccgcc ggcgcactcg gggaccgtcg aatcgagcag 120

gttgacggag gagaggaagc ctcaagatg ttccggaacc agtacgacac cgacgtgacg 180

acatggagcc cccaggggag gctgttccag gtggagtacg ccatggaggc cgtcaagcag 240

ggctcagcct gcgtcgggct ccggtccagc acccaacgag tcctcgccgt cgtcaacaag 300

cccgccttcg agctctcctt ctaccagcgg aaggtgttcc gcgtcgctga ccacgccggg 360

gtcgcgctcg ccggccttac cgtcgacggc cgcgttctct cgcgctttct tc 412

<210> 29355

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F5

<400> 29355

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 atgaggtggc gtgcagttgg tagacgcaga tggttctggt taggatgggc acatgatagc 120  
 agtttagcca ccatccctct attcattttc atgctagtgc gtctggtagt cagctttggg 180  
 ttcctatagt aattgaggtt tgagagagac atgaggatta ggcattgcga agggcgacag 240  
 acgctcatga ctcatgagtt tgatgtgcc atgtgcaatt gacgggctga ggaagatctt 300  
 agttgatcag ttggtgaat 319

<210> 29356  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-005-Q1-K1-F9  
 <400> 29356

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 cgcctgaggc tgccaaatgg ctgaaggctg cctccgagta gacctctgca gaagaatata 120  
 ctactgatag agactcatgg gtggccttgc atgctgtacc atactaggtc tatagaagcc 180  
 caaaaatcta ggcacagact gtggacagtc aaaagtgcta atacaattta gtctcatgtt 240  
 agctgtacac gacatcatga gctatcaact agatagacaa ggggtgcatct aacacttgct 300  
 cttggttgct aatcat 316

<210> 29357  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-005-Q1-K1-G10  
 <400> 29357

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 gcggcgaaga agcctgcaga ggagcccgcg acagagaagg cggagaaggc tccggcgggg 180  
 aagaagccca aggccgagaa gcgcctcccg gcgggcaagt ccgccggtaa ggagggcggc 240

gagggcaaga aggggaaaaa gaaagcgaag aagtccgtgg agacctacaa gatctacatc 300  
 ttcaaggtgc tgaagcaggt gcaccccgac atcggcatct cgtccaaggc catgtccatc 360  
 atgaactcct tcatcaacga catcttcgag aagctcgcgg ccgagtccgn caagctggcg 420  
 cgctataaca ngaagcccac cg 442

<210> 29358  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-005-Q1-K1-E4  
 <400> 29358

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 taccaagtgg atccaccaca tccagcgcct cagcgcggcc aaggtgtcgg cggaggcggg 180  
 ggagcggggc cagagccgcg tcatcgacgc ctctctcacc ctaattcggc agcgcgcaaa 240  
 gctcaaggca gaggtgctgc gtgctctggg tggcgtgaaa gcttcagcgt cgctcttaag 300  
 ggtccctctt gggcacaact tattctttttt acaagggcct gcatttggtt cttcacgcat 360  
 accggaaggc attt 374

<210> 29359  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-005-Q1-K1-G11  
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 gcaagatcaa cgtcgtcgtt caagccagcc agcggtagag ccggtagtag agactacgac 120  
 cgaggctagc taagctaaga gatggcggat caccagtact cggcgtggac gacttccgct 180  
 gctcgtcatc gggctctctc ctgtgcgctc atggctcttg ttagttttgt ggctgcagga 240  
 cgacccattg tgctcgccga cgccatcgtc tttcacgtgg cgaacagggtg cccgttcccc 300  
 gtgtggccgg cgtccgcccc taacaccggc caccagtgct tcgccggcgg cggctttctac 360

gtcccgagg gcaagtcgag ggcgctcgtc ggcgggcca actggaacgg ggcgttcttg 420  
gctcgaccg ggtgcaactt c 441

<210> 29360  
<211> 385  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-005-Q1-K1-C4  
  
<400> 29360

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aagccccttg caggggcaca ataagaatat tcaatcgctt tgttgggact ctgctggtga 120  
atatctggct tctgtcagtg aagactcggc cagaatatgg tcattcagtt ctggacgtga 180  
tggtgaattt gtgcacgaat tgaatcgag tggaaatcag ttccactcat gtgtttcca 240  
cccaacttat caatccttgg tagtgattgg ttgttaccag tccttggaaac tttgggacat 300  
aaaggagaag aacaccatga cctttaacaa tgcccattac cggttggttg cagcccttgc 360  
aacattcaat gcaacaagga aaggt 385

<210> 29361  
<211> 383  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-005-Q1-K1-C5  
  
<400> 29361

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aaccctcgcc tccccacgg ccgcccga gacggacgg ctcaacggcg gcgtcgcgga 120  
ggaggagcag gtcccatca cccacccgc aaagtccctac gtcacgctcg ccgacgacaa 180  
ccccgtcct aacggcgggc tegtgaaga ggaggagggc ggtgccaca ccaccgcgaa 240  
gtcctacgca gctgtcgcc ccaagccga gatcgaggac ctccgcgcc tcaagctcga 300  
cctggaggag aagctcgctg aggcccgccg tgagaacaag ttctcgccg aggagacgca 360  
ccgcaacgag gggatcttca cgc 383

<210> 29362

<211> 339  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-C7  
  
 <400> 29362  
  
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 caccggcagc gacgatgtcg gggcgcgga aggccggcaa aggtctgggc aaggcgagg 120  
 caaagcgcca ccgtaagggtg ctccgtgaca acatccaggg catcaccaag cccgcgatcc 180  
 gtaggctggc tcggaagggc ggcgtgaagc gcatttcggg gcttatctac gaggagacc 240  
 gggcggtcct caagatcttt ctcgagaacg tcatccgga cggcgtcacc tacaccgagc 300  
 acgcacgccg gaagactgtt acccgcatgg acgtcgtct 339

<210> 29363  
 <211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-C8  
  
 <400> 29363  
  
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 agccccaga tccggcaccg cccgctcctc gatccccga cccacgccc gcaggccggg 120  
 accggcgggg tcgcgcgccg ggtaggagga ggagaagagg aaggcggta tggcgcgcc 180  
 gccggcgagg gcccgggccg actacgacta ccttatcaag ctgctcctca ttggagacag 240  
 cggtgggtgc tgctagatct ctctgtctca gtaaaccggg gtgtaagggc gtacgtctta 300  
 caccgctcg cgttcgtggg atcggagttg gattccgggt ttggcaagag ttgccttctg 360  
 ttgcggttct ctgatggttc cttcactaca agctttatta ccacaattgg 410

<210> 29364  
 <211> 201  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-C9  
  
 <400> 29364

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atgtcggcca ggttgtcatc tcactctggtg ctaaaggctg ttcgtctaata gaacccgaag 120  
cggtgtgtgt gcggcatggg tagcctatga tccacttgac tttatctgtc ataggttgcc 180  
tgtgctttca gactttgctg c 201

<210> 29365  
<211> 324  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-005-Q1-K1-D1  
<400> 29365

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ggcctatgcc taaccaacg gcaatgcatg ggtcacagag tcagatgatg ccccaaatgc 120  
cacagcacat gatggggcta aatcagatgc atgctgggtc tgggccttct ggtactgtac 180  
cccaatggg tgggttccca agtgggatgg gaaacattca atgagcatca agttcgtctg 240  
gcgtacaaaa ttttcctatg ggtggcatgt attatccgcc ttaaggacaa atggcttcac 300  
aagggcaaat gacattcatt tctg 324

<210> 29366  
<211> 340  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-005-Q1-K1-D10  
<400> 29366

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ggttctacac tggatagcta gagctcatgc gaccgaatag atggtggatg cattgatggt 120  
agagaggaca tgtcccaata tgtgaggctg agcatcactg agacaactcg atcactcata 180  
ccagttatca aggagaatgt taagagtatt acaaattgac gagccaccat aaatctcagc 240  
tgtgacctac ttgttcatga ttgatgctaa cctgaccaag cattccatgc gttggatgaa 300  
gttgatttag ctaactgatt cttgatatga ggtctatgct 340

<210> 29367

<211> 336  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-D11  
  
 <400> 29367  
  
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 ctctccgttg ccgggggagg acgggtact tgccgggag cgggttgctg tgctgaagcc 180  
 cgacccggcg aaccctaacc ctagcgcgga tggggacggg aaggcggcgt ccgggcagga 240  
 ggccgcgcgc gccgcggcgc tcgcgacggc ctcgtcgttc caggcggcgt acctgcacct 300  
 gcaggccgcc cagcgcgcgt tcctgccgga cgcggc 336

<210> 29368  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-005-Q1-K1-D12  
  
 <400> 29368  
  
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 atccaaaggc attttatgat gcatttggtc ttgcgatgta tgatatattt gccggaagca 120  
 tcaccacata tatgttgggg ctttggttag tctcctcggt ttttttcaaa ggagggttgca 180  
 tagggtacat agtgtaatct tttctatttc gttcctagat ttgtcaagag atggcaatta 240  
 tttgttggag aaagctcgtt gccacattct agtcattctt ttcttagtgg tttcactgct 300  
 catctgggtt ctgtaatttt tcaattgaag gccaaatgag caaagtagta attggagata 360  
 gaaatatggt actactgtcc tatctatcga tctccaataa attagcgttg caatgtanaa 420  
 t 421

<210> 29369  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-D2

<400> 29369

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aagacagcgg caggggtcgg gcgcccaccg acgtgccggg tgccaccgag gaagagaggg 120  
gaggcgccgg aggagacctc gagggcggtc ggccgtaccc ggaaaacggc agcggcaggg 180  
gccgtccgcc gtggtactac acgggcttcc accgcggcag gcagcaagag caagaacagc 240  
gggacttcgg gatgagcgac acg 263

<210> 29370

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-D3

<400> 29370

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tatgcatgat agcaaacatt gggcctgaga ccgttgaaga ggtttatgca ctagtgccat 120  
ctctcaaggc taataggtca gctatcgaag gttcagtcac tgaggttctt accgccctcg 180  
caaacataaa agctgctaag tgaatctcca atggaactag accgacaata aatcggaagc 240  
agctgtcttg ttgatcgagg agcgcggaat ctgcaaactg gcccttcggg gttttggatg 300  
tgctgcggaa acgtgttatg atgtgtatat taaaaacgta gcatgtgctg catgaacttc 360  
tgtaggatgt ctaactactg aagtgcaaat tcagccttaa ctagtctac 409

<210> 29371

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-D4

<400> 29371

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gtggg 65

<210> 29372



<211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-D5  
  
 <400> 29372  
  
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 caacctcttc ctgatgacga tgatgatctg attgagtaga aaggatcatg agtcttgaac 120  
 ttgagcatga gttgcgcctt gcatgttata agttgttcta gggatgaactc tctagttctc 180  
 attggctgga tcatctgcat ctcttggat gtgtacgcat gatatgagtg tggaaatgga 240  
 tgggtacttct agacatgaat tcgctggcta ctttatacat tgggtgtgtca ctctgtttga 300  
 tgataaactt tgttgaggca atcctcttag tgctgatata 340

<210> 29373  
 <211> 378  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-D7  
  
 <400> 29373  
  
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 tcggcgcacc cgagctcgcc ctctccttcc tcatcgaggc ccgagtcctg ctctgatggc 120  
 gaccgacgtg gctgagactc ccgcgccgtt ggtggatgcg gcccctgagg cggccgcgga 180  
 caccgccgcy gcgcctgctg ttgacgcgaa gccggccaag gccagaagg ccacagcgcc 240  
 gaagaagcgc gccagcccga cccatccgcc gtacgccgag atgggtctcg aagcgatcgc 300  
 gtcgctcaag gagaggacgg gggccagcag ctttgctatt gccagttct tggagggcaa 360  
 gcacaaggac aagcttcc 378

<210> 29374  
 <211> 411  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-D8  
  
 <400> 29374

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ggcacttttg caaggctcct ggagtgcgc acagccacac caagccgtat gtgcgctcca 120  
aggggaaggaa gttcgagaag gtcctggca agaggaacag cctgggattc aaggtttaaa 180  
acaaattgtg gccctccgtg ttgccatcag catagtgcac cgttgtgtt tgatcaatcg 240  
acagtaatta gtcatcactc tgtaccgaga ttagtagcac aatttggtt cctggtttga 300  
atatttgaag atatttgatg tcgtctcctt attatctact cgttactggt tgagcacgaa 360  
gattgttttg tgatactcct acatgattta agacggttcc cgacgttcca t 411

<210> 29375

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-D9

<400> 29375

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gtcctgtca tgggtcctga taccacatgc caacagttgc tccctgtcgt cattgcttct 120  
tcaaaggaca gggttccgaa catgaaattc aatgtcgcta aagtccctgca atcacttgta 180  
ccaatccttg atcaatctgt tgtggagaag acagtgaac catgcttagt tgagctcagt 240  
gaggacccag atgtagatgt aagatactac gcacaccaag cccttcgggc gtgtgaccaa 300  
atggtgatat ctagttgact agcctgtcca ggaattaaca aatgagatac atattggtct 360  
attctttttg aacattttta agtgttatgt agtcttaaaa atattgtacc accaatgacg 420  
ttgatgcac tttntattaa ttatgtg 447

<210> 29376

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E10

<400> 29376

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ggtgagcgtg gccggccac tctacgagct gttcgtggca atggcaagct cgatctggac 180  
 actccacagg ttagcatggg catacgaccc cgcagtcggc atattccagg tcggccgggg 240  
 cgcagagttc tcgacggtgt acatggagaa cattgtccgg tcgaagaagc gttttgcggg 300  
 gagcaaggag ccccggaagc cgtgcggcc gaaggtcggg ttcacggtg tgccgggctt 360  
 ccggctcgga gggacagtga tccagtgtac ggtgtatctg gatcacgga agagggaaga 420  
 agacattaca gattcggg 438

<210> 29377

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C12

<400> 29377

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 ggtgaactcg ctactccagt gctctgcaat attaagcaga agctattgta ttgtttgggt 180  
 cgtttgtcag ctaaattgaa atgcgatgga catttactag t 221

<210> 29378

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-E11

<400> 29378

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 tcaaccagca tggactgtgg atcgatggat gctgttactc ctgtcaggat ttgttctaag 120  
 ttaatcctaa ggaaaaaatg gtgcttcttg gtgctgc 157

<210> 29379

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-E2

<400> 29379

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gaatcgcgct gtctctcttg gatatgtgtt gctccagcac atccccctcg cattgtaagt 180  
aaaagttttg gttcttaaaa ttgggtgccc ctgaaagcat ttggcttggc tgggataaat 240  
tgagcacgaa gtgggctgcc actgtaatga tagccatgta tgggtctgca cataacacat 300  
tcgtaccgga ttgattagaa gcacgtacca cttaaaaaaa aacaatattg tttttaataa 360  
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<210> 29380

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-A11

<400> 29380

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gcgcggggaga tcttttaacc tcaggtagct taatataatg aatagagggtg cagacttcct 120  
cgatttacag atatagagta agcaagcagc agaatcttta ctctgaatgc gaggtgcaat 180  
cttactatga actatggttt tgccatccat ttgataagct cgttgatgac actcgatcat 240  
tactcgatga tattttggct tctccttatg gcgcttcac tggttgatgc tattctctta 300  
ttgaactcgc gtgctcttat 320

<210> 29381

<211> 249

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-A2

<400> 29381

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caacctcaac ttctctcaat gcttcttatg agcaaagtgc tgataacgtg ttgtaaatca 120

gtggtaacgg gacacgaaaa tgtagagaga aagtgcacagt tgtattgatc tcatgaaatg 180  
 tgtacatata tatacatagt gaagagacac cacgaaaggt cgcaaaaaaa aaaaaattcn 240  
 atattactt 249

<210> 29382  
 <211> 394  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-005-Q1-K1-A3  
 <400> 29382

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 tcggcggccc agctgggtggc tctcgggcta gcgctcctct gcgctgtcgc cggcccggcc 120  
 gccgcgcaga actgcggctg ccagccaaac gtctgtctgca gcaagttcgg ctactgcggc 180  
 acgaccgacg agtactgtgg cgacgggtgc cagtcggggc cgtgccgctc gggcggcggc 240  
 ggcggcggca gtgggtggccg tgggtcgaac gtggctagcg tcgtcaccag ctcttcttct 300  
 aacggcatca agaaccaggc cgggagcggg tgcgagggca agaacttcta caccgggagc 360  
 gcgttcctga gcgccgtcaa ggcgtaccca ggct 394

<210> 29383  
 <211> 280  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-005-Q1-K1-A4  
 <400> 29383

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 tcgaggaagc ccagacaacc catgagagac ccaaaggtag catgatggtg tgagaatggg 120  
 ttcttttggg ctaatgctca actctgtcgt ccttggattc acctctgttg tgctagaaaa 180  
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 aggggtgaggt tggaccaag acaatccatg ttccatctgg ggagaagctt gcagtttttg 180  
 atgctgctat gaaatccaag aatgaagggc atgacactat taccctggct ggtgccaagt 240  
 acggaagtgg aagctctcgg gattgggctg caaagggccc aatgctgcag ggagtgaagg 300  
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 tgcggcggct gcaagatgtt ccctgacgtg gagaccgcgc gcgtcggcgg cgtgaagccc 180  
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 ggcggcggct gcgactgcaa cacctgcaac tgcggcacca gctgcggctg ctctgctgc 300  
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 gactacaact a 371

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 <213> Zea mays  
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 gggcaagctt actatgaact ttggttttgc cattgatttg ataagcttgt tgatgtcact 240  
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 tctcttattg aactcgcgtg ctcttatagt ttcttttttg aagaggatta aagcttacat 360  
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 <211> 195  
 <212> DNA  
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<210> 29388  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-005-Q1-K1-B10  
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 cctggtgcga gagaagtgga tccagatcga gaccgccaag atcatccggg agcgcctacg 180  
 ctggtgctac cgcacgcagg gcatcaacca ccaccagaag tgccgccacc tcgtcgacca 240  
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cgagcccaag aagaccgtca aggcggagta gcggcgctgc tgccttgctt ctctgtgctgc 360  
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 <211> 354  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-005-Q1-K1-B11  
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 aggtaggtct actttagaga cgagacatat ctcaccaagt tcacgtgtga tcagcttaat 180  
 cattaccgat cagattcagt ctacctatga tcttatatac tactggataa taccctacat 240  
 tgggtgtgtac ctttacacgt ttatttctac tattgttttg ctgtctgtct gattgcttat 300  
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 <211> 410  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-005-Q1-K1-B2  
 <400> 29390

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 gcttgatat gacgatcagc ttgaaaggct caaggaaaaa gagcaaaagg acgctaagaa 180  
 gcgccagcgc ttgggtgaaa atttttcaga tcttttgtat tccatcaaag aaatatcagc 240  
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 ggacagtgag acttatgcta gaaagctttt tgaaaaatgc cgtgtccacc ttaaagaaaa 360  
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<210> 29391  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-B3  
  
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 ctagtaagtt gacggataat gatcgatatg caaatttttt ttgggtgttcc atggctctaa 120  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-B4  
  
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 catgcatgct tttctggcct atggctctgca cgacaagcgc atgaagagca cggacatgat 180  
 tc 182

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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-B5  
  
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 cgggtccata tcaaaccaac cctgcatgca gggcatctta ttatatataa tatctgaggt 180  
 ggagcatatc tatctggctg tgtactgcaa gcaggcctag tacgccgtct gcgcgttcct 240  
 cctattacac atataggccc ctccctgcgt gtatgcttgt taccgtcgtg ttcaaccttg 300  
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aa

362

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gaggtgtacc cgctgttcgc ggcaacgggc gtggccgctcg gcatctgcgg atttcagctc 180  
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gtgcttgaga accatgagga ggggagacgt tacgccatgc atggcctaag aagctttgtg 300  
cacgacaaga ctctgagat catgcctgca gttaacaagt tcttcactga ccctaagtga 360  
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<211> 461  
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<213> Zea mays  
  
<223> Clone ID: LIB3067-005-Q1-K1-B9  
  
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cctggacatc aacaccatac agcacaacta cacagagtga gagccccctc gctgcaatgt 180  
ctaccacaac accttttgctg cccgacggga gccatctgat tacagataaa aattttacta 240  
gctgtaaagc tctataccac cagatactgc catatgatgg tatgggtggg taccgctctt 300  
tctagggagt ttcttttctc tctctcttta ttcttattgt tatgtttttc aatagtgagg 360  
tgtgcgcgtg ttgtaatcgt ttttacctgc gtttttctct aactagccgg tgacctttcg 420  
ggaagcgagg tgaataaata atgcatctaa aattctttgc c 461

<210> 29396  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C10

<400> 29396

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ttctgcctca tcattctgggg cgccgcccgg ccgtacgagc ccgaggtcat cgtcaagagc  180
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ttggtcacia caaactgttc tctgcacata gctgtctaca accctgccac aatgtttgga  300
attcatgtca cttctggccc catccacctg atgtattcag agatcccaat agcagtcggt  360
cagagcttgg tgatggacga cttctacgcg ggtgaaggca cggaccacag cggcgttcca  420
acaaaattgg tcacaacaaa ct                                     442
  
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<210> 29397  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-C11

<400> 29397

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gcggcaggta aagcctttta tcccttgact ctatctgtat cgtttgccctg tgcttgtgac  180
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gaattatctg ctgtgttggc ttgtgtactt tgattgtacc ccaagtatct tgaagtctctg  360
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<210> 29398  
 <211> 282  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G2

<400> 29398

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tgcatgaacc cactaaccat tggcgggtcaa atgagttctt ttaaatagct tcagattttc 180  
ttgttatgta ccaaaccggt ctgccactag tgcaatgata tcagaaacat agaggacatc 240  
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<210> 29399

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G3

<400> 29399

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cttctcctcc tcttccccgc acgccccgcc gctggctgag tcggggtaca ccccgcgccg 180  
cgagtacggc ctggtgcccc tggatgacga gcataccttc cgcggggagc ggcctacga 240  
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<210> 29400

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G4

<400> 29400

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aaaaaagata tagtaaagct tcagcatgga gaatatgtgt ctcttggtcaa ggttgaatcg 180  
gctctagcaa caagcaacta tgtggagaac atcatggatt atgccgatcc atttcataac 240

tactgtgttg ccctggttgt tccagcgcac caggccttgg agaagtgggc tcagaattcc 300  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G5

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 acaacagtca ctcagagcac acacattgag tgggtccaaat atttccagct atggaaactt 180  
 gcagagtaac tgatactact acagcaaata gcagcaagtt aagctagatt gttaggaaag 240  
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 gccattaccg ttataaggtc catgggcagg ttgcatttat gtaag 345

<210> 29402  
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 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G6

<400> 29402

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 ccccatattg tcctcctttt ttactttttt tattatcttt atttctctct tttttttccc 360  
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<212> DNA  
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 <211> 266  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H1

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<210> 29405  
 <211> 410  
 <212> DNA  
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<223> Clone ID: LIB3067-004-Q1-K1-H10

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aaggaggagc tgctcaccga cccggacttc gagttcaccg aggagacacg cgcctggatc 300  
gaccgcatgg tggactacta tgtactcgga ggcaagtaga accgtctgct ctctgtggac 360  
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<210> 29406

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H11

<400> 29406

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<210> 29407

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H12

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aaaaaaaaa ttaaatatatt taaaaaaata ctgttatata tatacaatac attaaattat 180  
tttaattccc tttacttgac ccatatggta ccattttaaa ttatcttact atgcacataa 240  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-004-Q1-K1-H3  
  
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 <211> 252  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-004-Q1-K1-H4  
  
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 <211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-004-Q1-K1-H5  
  
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<210> 29411  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-004-Q1-K1-H9  
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<210> 29412  
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<212> DNA  
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<400> 29412

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<210> 29413  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-004-Q1-K1-G12  
  
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 ccacatccgt atgagtacac cggagggccc tctgcaccgg tggactacaa caggcaatat 180  
 gagcagagag ggagggctgg agccgcttgt agtggcacag gtaacggaat gtatagagca 240  
 ggcaactgcgc tagcgggaga tgctgaggct gaagcccttg gagacctagc agatgtacat 300  
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<210> 29414  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-005-Q1-K1-A10  
  
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 agaaggtagc tgtagagaag aaagctcctt tggatTTTTT tgggtgttata aatgcaaggc 180  
 ctgtggctag agatttgttt atggcatatg caagacattc taagcatgaa gaattgaagg 240  
 acttctTTTT atcgactggg agacttcaag atgccgcctt tcttttgttg aaggaaatcat 300  
 gggaattgga gaagaacccc atggcaagca aggggtctcc tctccatggt ccacaagtga 360  
 ggctcattga gcaggcccat agactTTTTT ctgaaaccaa ggaacatggt tttgagtcca 420  
 aagcttctga agagcatgcc aaat 444

<210> 29415  
 <211> 176  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-004-Q1-K1-E1

<400> 29415

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ggggtaggtc gtgttcggcg tccgtcttcg gagagttcca agagattggg ggtgcggctg 120  
tgggttccaa gtggatccac cacatccagc gcctcatttt gttcaatgtg tttgtt 176

<210> 29416

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E10

<400> 29416

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agcggtcaca tgcattgcatt gaggcgatca ctgtcttgct aactatgata tatttgcacg 120  
gaagcatcac cacatatatg atgccactct acgttagtgc tctcgctatg gctaaaagga 180  
tgttgacta ctgtacatag tgcaatctct taca 214

<210> 29417

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E11

<400> 29417

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tgccgcgacc attatggact gtggatcgat ggatgctggt actcctgtca ggatttgctt 120  
taagttaatc ctaaggaaaa aatgggtgctt cttgggtgctg c 161

<210> 29418

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E12

<400> 29418

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gatccatcca ggcttggagt cctaactgat cgggacctcg gattgcggaa cactgccggt 120  
 ggtgagcgtg gccggccaac tctacgagct gttcgtggca atggcaagct cgatctggac 180  
 actccacagg ttagcatggg catactaccc cgcagtcggc atattccagg tcggccggtg 240  
 cgcatagttc tcgacggtgt acatggagaa cattgtccgg tcgaagaagc gttttgctga 300  
 gagcaaggag ccccgga 318

<210> 29419  
 <211> 131  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E3

<400> 29419  
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 gcgactatcg tccagagact aatatacggc gtctacttct gcaccatcgg tctgtatgat 120  
 ctgtgatctt a 131

<210> 29420  
 <211> 424  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-E4

<400> 29420  
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 ggattcgtcg gcgcggtagc gagagctaga gatggacggg tggatgttct gtttctagac 120  
 ctctctgttt gtggcgctgt atctccttct ggacgtgctc ttctgctact cctgctctgt 180  
 ctgttttctt tcttttgctt gttttttttt ttgttgtctt ttattttctt tatatttatt 240  
 ttactttttt attttattat tttttttttt tataattttt ttttttttta tttttttttt 300  
 tttttttttt tttttttttt ttattttttt acttttttta attttagttt tattttttct 360  
 tttttttatt tctttttttt ttgtttttct tttttttttc tttttttttt ttttttttat 420  
 tttt 424

<210> 29421  
 <211> 272  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-004-Q1-K1-E5  
  
 <400> 29421  
  
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 agttcatgca cggcgacacc gactacatgc accccatgaa cctcagcacc atcctcgcca 120  
 tggaccagga gggcctctag actatagctc gatcagccgg acacgattat acgtacatgc 180  
 gtgatgtgtc tcacgtgcct agcacgttag tcatgtgttg gatgatggca gccaatttg 240  
 ccaataatat tcgtgcctcg atcctagttt ca 272

<210> 29422  
 <211> 52  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-004-Q1-K1-E8  
  
 <400> 29422  
  
 tcgagcaaac aatagcgagc gagagagcct tttagcctag agactagcca gc 52

<210> 29423  
 <211> 169  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-004-Q1-K1-F1  
  
 <400> 29423  
  
 tactcggttc cggatacccg gctggactcc acgcgtccgc ggacgcgtgc gtttacgcgt 60  
 tcgtgggttc gtgataattg ccaggcaggc aggtcgtgca ggagggcaag aagaccgaag 120  
 accgatccgt gcgggggctc gggactggaa ctgtacatga ccccaaat 169

<210> 29424  
 <211> 90  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-004-Q1-K1-F10

<400> 29424

gcgcacgcgt acgccacgcg ttccaagaag gcacttcatg tgacatttaa aaagcctagt 60  
gggagtgtta gcttatctgg gcacggggtt 90

<210> 29425

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F12

<400> 29425

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tgttgagtaa cttcttccga tccagattat ggcttcaaag cagcagcaga aacagtctct 120  
ggatgaagcc atgatcaagc agccgacacc ggaggaggac cgtgagggcg catggccctc 180  
agtgctgacg atcatcggtt ttggattcct aaccttcaac tcattcatgg ctgtgtacag 240  
gtcaaagtga gatgttggat ctatcttctt tgtggtcttc tcttacctgg tccttgttct 300  
gctgttctac 310

<210> 29426

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F2

<400> 29426

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cccggagcag gccgcgggca ctggagggtg gaggcgggtg ctggggtcag ggggttgtgg 120  
ctctgcgcgc ccttctctct cgcctactag catgctcgcc ttctcatctc catccagcga 180  
gaaggatggt ttattatatg catacttcct agctttgtga ttctgtgtct tttctttttt 240  
gtttgtctat cttttttttc ttattcttgt tgctttcttg tgttttcttt tttttttgtt 300  
tgtttttttt ctttgtctta tttatttttt ttttttatct tttttttttg tttttttct 360  
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ttcttttttt ttttttatct tttt 444

<210> 29427  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F3

<400> 29427

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gcaaagagcg gctcagccgc accggtgcgg tgccagcgga tcggctgcga cgccgtattc 120  
accgacgatg acaaccgcga gggctcctgc caataccacc ctttcgcacc tatgtttcat 180  
gactgcatga aagaatggag ctgctgcaag caaagaagcc atgatttcag cttatttttg 240  
cagatacctg gatgcacaac atgaaagcat acaaccgaaa aaccaatcac aaaagctgta 300  
tcattctaacc gtacaaaggc aaca 324

<210> 29428  
<211> 88  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F4

<400> 29428

cggacgcgtg ggtgagtgc caagaatgtc tccagcgaaa aaagacatat tagtaaatag 60  
gaataataat aaaaaaaga ggaataaa 88

<210> 29429  
<211> 354  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-004-Q1-K1-F5

<400> 29429

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agtcaaccca gcttaagtgt gcagcaccca gaagaaaaca agcagggttg tccagctgag 120  
ctatgcccaa tctgaagag gctttacaga atactgataa aaaggagct cccagcaagg 180

gacattcttc aagccctgag ggacgaaacg atgaatgac ctcgggaaag gattgagatg 240  
gcacaaagcc atgcattcta cctgccgtct ttccttgga aaccatgac taantagtct 300  
tgtagattat tagaatatta acggacgctg tgcttcatgt tttttcactg tgct 354

<210> 29430  
<211> 449  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-004-Q1-K1-F6  
<400> 29430

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tgttgctaag ctcagcgggt ctgcagccaa gcatggaatg atatatgtga catctgtaaa 120  
gatgatcata gacaagggct ttgactacac ttataagggt actgataggc ttcaccttat 180  
gcttgagatg tctattatct ctttttaagc tctttaatct attttttata atattttttt 240  
tttatttttt tttttattct tttttttttt atttatatct gtttttttaa ttttattata 300  
ttgttttttt attctttttt attattttat tttttttttt tatatatatt tttatttttt 360  
tttattttta ttattatatt tggtttttatt atttttttatt ttttatactt ttttctttta 420  
tttattttta ttataatttt ttttttttta 449

<210> 29431  
<211> 330  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-004-Q1-K1-F7  
<400> 29431

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gtcttgtttt tgaatctcat gataaagctt accttggttt gatggtttca gttagcataa 120  
ctctctgatt ccatcgactt gctttaagga aaaaagaatt gcatgcatgt ttcagcagta 180  
ccaactatac taagttacta acttatgtgg atatgaacct tctatgcatt tgtttttgta 240  
gaatttgtaa gaaatatccg ttttgctggt atttactttt gcttattatt gtatgaagtt 300  
tgaatggatg tgaggccctg taatattctt 330



<210> 29432  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D9

<400> 29432

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gctcctgtca tgggtcctga tatcacatgc caacagttgc tccctgtcgt cattgcttct 120  
tcaaaggaca gggttccgaa catgaaattc aatgtcgtca aagtcctgca atcacttgta 180  
ccaatccttg atcaatctgt tgtggagaag acagtgaac catgcttagt tgagctcagt 240  
gaggaccag atgtagatgt aagatactac gcacaccaag cccttcgggc gtgtgaccaa 300  
atggtgatat ctagttgact agcctgtcca ggaattaaca aatgagatac atattggtct 360  
attctttttg aacattttta agtgttatgt agtcttaaaa ataatgtacc accaatgacg 420  
ttgatgcac ttttt 435

<210> 29433  
<211> 260  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F8

<400> 29433

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tgcgagaagg cgacgtcgta ccagttcgcg gtgctcttcg tggccttcgc gttcctggtg 120  
ctgggctcgg cggggatccg cccctgcagc atgcccttcg gcgcccacct gttcgacccc 180  
aacacggagt ctggcatgcg cggcatcaac agcttcttca actggtacta ctttaccttc 240  
acggccgtca tgattgatct 260

<210> 29434  
<211> 167  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-F9

<400> 29434

attcgtocac gccacgcgtt cgctcagtcg gcagtgcgtg gttcattctc ggctccagca 60  
tacctcatgca ggaaccatca tggactgtgg atcgatggat gctgttactc ctgtcaggat 120  
ttgttctaag ttaatcctaa ggaaaaaatg gtgcttcttg gtgctgc 167

<210> 29435

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G1

<400> 29435

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atttctctct tgcagtctgt actcttgtgt accatggctc tccgtaagtt gtgaaagcat 120  
gagcacctat ttccaccttt gatggccaag aatctcattg tagctctgct gtacctatgta 180  
taagctgtta ttaactagt gaaagcagca cgaaaaaat tctgaaggga gtgtgaatct 240  
tgggtgggtca tctgtgtacc tgtgttcctg ataaatgctc tcgattaagc atgttgatct 300  
ttaaaaatatt tttgattttc atatatttta ttttaattctt tttttatctt tatctagttt 360  
ctttatgtta gtatattgtt tttttttttt ttttttttat attttactct ttt 413

<210> 29436

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G10

<400> 29436

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aatcatcagg ctgggcgatc gacatgttta ccggactctc tccacaaaca ggatccacaa 120  
gtgctggctc cacacaagca accatactac aaagacattc aaatgctcag ggtaccttgg 180  
gctcatggag gtctgaatgt atcatccaaa agattgatga tacttgctca tggcttcgaa 240  
ggctactaag aaggcctgaa attgatgaca ctgaagcatg ccttaacatg gagctaattg 300  
agtcaacagc cacagaaaaa tatgttttgc cttctccttc aaaaccttct tcaagttcag 360

tagtggagga catcaat ttt gtaacatcct tcacacttcc ataaacagta atattatctt 420  
tatttggtga gaactgcttt gcactggt 448

<210> 29437  
<211> 294  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-004-Q1-K1-G11  
  
<400> 29437

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tcgaggaaaa gtatatcaag cgactaacga catttgtaga aaaacagtgc tataagctac 120  
aagacttgct agctcggatt gcagatggcg gatcagaagt actgagaact gacgacttta 180  
cgtgctcata atctggctctt atactgagcg ctcatggatc ttggtagctg tgtggctgct 240  
tgacgacca ttgtgctcga cgacgccatc gtatttcacg tggcgaacat gtgc 294

<210> 29438  
<211> 353  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-004-Q1-K1-B5  
  
<400> 29438

gcaacagcaa gggagcaagg atactagtca gttgcgcacc ttctgatgga caggctgaag 60  
cgacaagctt tctgatgact actggtgctg gcacgttcac ttctacagcg acgattatta 120  
catatgtatt gtagtggtag tctgttttct gacgacgctt tggttttgaa ttgtttcatt 180  
tttgtaat tttatttttt ttactagatt gggtgttggt atttgttatt tttttttttt 240  
ttttataatt tttttttttt attataattt tcttttttgt tggattattt tttttttttt 300  
ttttttattt ttatttatct tatatttttt tttttgtttt attatctatt ttt 353

<210> 29439  
<211> 285  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-004-Q1-K1-B6

<400> 29439

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gtgaatgtcg tagcgtttagc aattttttttt taaaaaaaaag ttccattgaa tgactaattc 120

ttctcctgtt gcatgctaca gtaatgccct ggagaaacga tcaaaagata tcgcaaacag 180

gatgttactt gaagaggggtg tactgcgggcg ttccacacgt gtccggggctc atccaaagga 240

catggcattc ctcaagtacg tcaacaagtg gaaggataac tgatg 285

<210> 29440

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B7

<400> 29440

aaaaaaaaaa aaatatcaaa aaaaatttaa aaaaaaaaaa ataacaaca aa 52

<210> 29441

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B9

<400> 29441

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cctggtgcga gagaagtgga tccagatcga gaccgccaag atcatccggg agcgctccg 180

ctggtgctac cgcacgagg gcatcaacca ccaccagaag tgccgccacc tcgtcgacca 240

atacctagag gctaccgcg gcgtgggttg gggcaaggat gcccgccgc ctgaactcca 300

cgagcccaag aagaccgtca aggcggagta gcggcgctgc tgccttgctt ctctgtctgc 360

tgttcctgga ttggagaggt gatctgacct ttccattgag ttgaatgaag tagcctggaa 420

ct 422

<210> 29442

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C1

<400> 29442

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gggaatccct tagcatgggg acaatttgaa tattcaatcg ctttggtggg actctgctgg 120

tgaatatctg tcttttgtca gagaagactc gttcagaata tggacattca gttctggacg 180

tgatggtgaa tttgtgcacg aattgaatcg cagtggaaat ctttttact catgtgtttt 240

acacccaact tatcaaacct tgtagcgat tgggtctttac gagttcttgg aacttttggg 300

cata 304

<210> 29443

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C10

<400> 29443

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cagcggggcg ttccgtcgct gccagatggt actcggtctc ctcaccttcg tctctctttt 120

caccgtcttc tgtctcatta 140

<210> 29444

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C11

<400> 29444

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caaagggtga ggtcggatcg ggagataatg actctccaac tgatataccc gaagggttga 120

ggttcgggta tggcatccta tgtttca 147

<210> 29445

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C12

<400> 29445

cgaggagaca ggcgcaacgt cgaagtaccc gacggcatgc ctaaacaatgt taacgacgag 60

tggtaggtct tctgtcgttt gctgatcgtg agaactttta atac 104

<210> 29446

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C2

<400> 29446

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cctgaggaga tgaatttggc cacggagcat tgtcgatcag ctgatcttgt tctatgtcta 120

ggaactagat tactcctgca tgtaatatgc ctctgatgtc aatcaagaag ggggggacat 180

aggggaataat gttctggaga tgaagaaacg cttgcgttgg cttatctttt tttctttttt 240

atTTTTTTTT ttatttattt ttttattttt tttatttttt cttttttttt atTTTTTTTat 300

ttttgttttt tattattatt tttatttttt tatttatttt tattttttat tttttta 357

<210> 29447

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C4

<400> 29447

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atcgtgcggt ggctacgaca gatgaaaaat ataaaagcga cctgtggacg tccagcgcgt 120

tagctacaag aatgaataa tcatgcgcca cacgttatga ta 162

<210> 29448

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C5

<400> 29448

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atcaggatct tctggaaacg tggcatacta tatgggtcaa atggctatgg ccatgggaaa 120  
acttgtcaca ctcgagaatt tccttcgcca ggctgacaat ctacgacagc agaccttaca 180  
tcagatgcat cttatcctga ctatccgaca agctgctcgt gcgctttttg caatccatga 240  
ctacttttca cgttttgtct ctctgagatc ttattggttt gctagtgttt ctttagttac 300  
attattttta ttattgttct atttattttt ttttattttt tatttttttt tcttgtttta 360  
ttatttttat tatttttttt ttttattatt ttttttttta tttttttcta ttttttatat 420  
aatattctta ttattttatt tttttttt 448

<210> 29449

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C7

<400> 29449

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<210> 29450

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C8

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<210> 29451

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-C9

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gaatgttaag aatgttgctg tgaaggatct gaagcgtggg tatgtggcct ccaacttcaa 120

ggatgaccct gccaaaggagg ctgctagctt cacgtcccag gtcacatca tgaaccaccc 180

tgggcagatt ggcaacggct atgccccagt gctggactgc cacacctgc acattgctgt 240

caagtttgcg gagctcatta ccaagattga taggctgtct ggcaaagagc ttgataagga 300

gccccaaattc ctcaagaatg gtgatgctgg tatgggtgaag atggttccca ctaagcccat 360

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<210> 29452

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D1

<400> 29452

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caccggctag aggaggacgt ggtgggaggg gaggcaggtt cgatggcggc ggccgtgggg 120

gcggctgctg ctgccgtggg tttggcgggtg gtagaggctg tagaggggac agg 173

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D10

<400> 29453

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aggccgggat atttttggat gtcggggcc taaagtgtc gagagcatag ctctaatTT 120

ccttagtctt acgacattat atcatttatg ctttctaate ttcttacttg ttaaaacact 180

tttaatcaag aaacttatca tc 202

<210> 29454

<211> 337

<212> DNA



<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D11

<400> 29454

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gctcctgtca tgggtcctga tgtcacatgc caacagctgc tacctgtcgt cattgcttct 120

tcaaaggaca ggggtcccaa catgaaattc aatgtcgcta aagtcctgca atcacttgta 180

ccaatccttg atcaatctgc tgtggagaag acagtgcac catgcttagt tgagctcagt 240

gaggacccac atgtagatgt tagatactac gcacaccaag ccctttgggc gtgtgacca 300

atggggatat ctaattgact agcctgtcca agaatta 337

<210> 29455

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B4

<400> 29455

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tgcctttctt gattgttttc tatttttttt ctatttttat ttgttttctt cttttgtttt 180

ttttttatatt ttttattttt tttttttatt tttttctttt tttttttttt ttttttttat 240

tttattttatt tatttttttt tttttttttt ttttttttta tttttttttt tcttattttt 300

tttattctat ttttattttt ttctattctt ttgtttcttt tttttatttt ttttattatt 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D12

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 ttgccggaag catcaccaca tataatgttg ggctttgggt agtctcctcg ttttttttca 180  
 aaggaggttg catagggtag atagtgtcat cttttctatt tcgttcctag atttgtcaag 240  
 agatggcaat tatttggttg agaaagctcg ttgccacatt ctagtcattc ttttcttagt 300  
 ggtttcactg ctcatctagt ttctgtaatt ctttaaattg aaggccaatt gagcaaagta 360  
 ttaatttga gattgaatta tgttactact gtccatctc tc 402

<210> 29457  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D3

<400> 29457

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 ccggcgccgc cggtcagggt ggcccggccg ccggcggcgc tgtgatgagg gcgtaccacg 180  
 agcgggtggt ggaccactac aacaaccgc ggaacgtctg ttccttcgac aaggaggacc 240  
 ccaacgtcgg tactgggctg gtc 263

<210> 29458  
 <211> 245  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D5

<400> 29458

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 ctctcagtt gaaaagagct atgagctacc tgatggccaa gtaatcacca tcggtgcaga 120  
 gagattcagg tgccccgagg tcctcttcca gccatccatg attggtatgg aggctgctgg 180  
 aatccatgag acaacatata attcaatcat gaattgtgat gtggatatca ggatggacct 240  
 ttact 245

<210> 29459  
<211> 111  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D6

<400> 29459

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accttggttg cctgttctag gttcacctac cttttctcca tctcactcca a 111

<210> 29460  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D7

<400> 29460

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atatatttat ttatatTTTT tttatttatt ttttaattatt ttttttttat ttttttttat 180  
tttttttttt tttttttatt ttatttttat taatttttta tttttttttt tttttttatt 240  
ttattttttt ttttttttat ttatatatat tttttttata tttttttttt tttttttttt 300  
tttt 304

<210> 29461  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-D8

<400> 29461

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caagtgagaa gcatttagct cttctatacc tagcaacaat tcagggtatt gcttatggta 120  
ctcgtcatat tgtggagcat tgtaatgctc atggccacaa gatagacaca cttcttgctt 180  
gtgggggact tgcaaagaat tctctgtata tccaagagca tgcagatatt acaggatgtc 240

ctataataact tcctagagag agcgagtcag tgcttttggg tgccgctgtt cttggcgccct 300  
gtgctggcaa gaagtttccg ggt 323

<210> 29462  
<211> 446  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-003-Q1-K1-H11  
  
<400> 29462

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gtacgacatc aagcggtcgg ggaacaacgt caacgtgtcc acgggggtga actggatgct 120  
gctgggcagc cccgtcagca aggacttccc gctcgccatc taccctcgcg acaagggtgcc 180  
gtccccctac gagctgttcg ggcccaagcc gccacgcccg gcgcccgcgc cggcaccgcg 240  
gcccggggcg gccaaaggcca agaccaagaa gaagaagaag tccgccgcca tcgccgagcc 300  
gccacggccc gacgacgacg acaccggcaa gggcggcaag gggctgggca agggcggcgc 360  
gaaacgccac cgtaaggttc tccgcgacaa catccagggt atcacgaagc cggcaatccg 420  
gaggctggcg aggaggggcg gcgtga 446

<210> 29463  
<211> 340  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-003-Q1-K1-H12  
  
<400> 29463

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gctgtgctgc gtacagtacg tagtaccatg gcgaagaaag tggccactct gctggccctc 120  
aacctcctct tcttcgcctt cgccgacgca tgccggtgca ggtgcggcgg atcctgccct 180  
agtccaggcg gcggtggcgg tggcggtgga ggatctggtg gtggtggtgg tgggaagcgg 240  
gggggtggga gtggnggggg tggatcgggt ggtgggagtg gtggcggagg atctggtgga 300  
ggcggntggt gcggtggagg cggtggtatct ggtgggtggtg 340

<210> 29464  
 <211> 53  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-003-Q1-K1-H4  
  
 <400> 29464  
  
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<210> 29465  
 <211> 77  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-003-Q1-K1-H5  
  
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 tgagcgcgatgc catgagc 77

<210> 29466  
 <211> 97  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-003-Q1-K1-H8  
  
 <400> 29466  
  
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 ctgttatcct gcgataacaa tacctagggg tagcagt 97

<210> 29467  
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 <213> Zea mays  
  
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 tgaagatgga gaagaggaag aggaggagga agagaaaggt gatggaaaca actggaaggg 180

ctctgtggat ccaaactctc tggaagctga agaaaagaac gggagctcgg agagtctgat 240  
ggcgctgcga agagcaaaga acgctctact gttcgatctc gacaggaggc taatggacct 300  
gcaggcagct gatgcagtct cgaaaatgga ggcggcgctca cgcttccgcg tccaggtgct 360  
cttcatctac acaccgaggc ggcctgtccc ttcagacgat ccagcacagg gggacacagt 420  
ggagctgccg cagatccctg gctcg 445

<210> 29468

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A1

<400> 29468

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ggagtcaata tccagcaacg ggtaccgatg tacgctagac gcaatcgtgc tataataccg 120  
agacctacgg ctccagtgcc cttagtattg gacagtctcg cacatgtagt cacctatctt 180  
gagccatctt aggtgtctac caaatgtgaa gccctgcttg gatggtgtgt cttcaattat 240  
tgtatttata atttttctt 259

<210> 29469

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A10

<400> 29469

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agaaggtagc tggtgagaag aaagctcctt tggatttttt tgggtgttata aatgcaaggc 180  
ctgtggctag agatttggtt atggcatatg caagacattc taagcatgaa gaattgaagg 240  
acttcttttt atcgactggg agacttcaag atgccgcctt tcttttggtg aaggaatcat 300  
gggaattgga gaagaacccc atggcaagca aggggtctcc tctccatggt ccacaagtga 360  
ggctcattga gcaagcccat atactttttg ctgaaaccaa agaacatggt tt 412

<210> 29470  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A11

<400> 29470

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tcagttatatt gacatctggc agcatcatct aatggaaagt ggtgcagact tccttgattt 120  
acagaaatct tataagcaag cagcaggatc tttttctgaa tggaggggca agcttactag 180  
gaactttggg tttgccattg atttgataag cttgttgatg tcacttggtc attactcgat 240  
gatatttttg cttcgtggta tggcgtttca tctgggtgat gcagttctct tattgaactc 300  
gcgtgctctt atagtttctt ttttgaagag gattaaagct cacatcaagt tacggaaggc 360  
acttagttca ctcgatggag cacttccaga tgctacgtat gatgaaattt gtgcatatga 420  
tgatgagtgt gccatctgc 439

<210> 29471  
<211> 78  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A2

<400> 29471

cccacgcgtc cgaaataaaa aaaaaatata aaaaaaaaaa taaaaaaaaa aaaaaaaaaag 60  
ggaaaaataa aagaaaaa 78

<210> 29472  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A4

<400> 29472

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cccgccgcgt ccggccgcgg caaccgcacc tgtgtcaatc tccatgacta cctcaaggcg 120

tcttgctgat aggaagatat cacgatttga gaagaatatc acaaagaggg gcgctgttcc 180  
 tgagacagcc aagaaggcaa acgattatcc tgttgggcct attcttcttg ggttctttgt 240  
 ctctcggtgtt gttggatcat ctctctttca gatcatcaag acagcatcaa acgctgggtct 300  
 attctgagga gaatcggttg acacatgcaa tctgtcacta gaaactattc aagtgtaggg 360  
 cgtgggtcaa tgtcgcctat ttaatgttgt accgtggtga gttttaggta tatatttaat 420  
 ggaagtgcctt at 432

<210> 29473  
 <211> 80  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A6

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 gaaaataaaa ataaaggggg 80

<210> 29474  
 <211> 344  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A7

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 gaaggcgtag ccgggctgcg acgccatccc ctgcgaccag ttcgaggtgg cgttccaggc 120  
 cgtggagctg tggatcgcg accgcgccgt gctccccgtg gagaactcgc tgggcggcag 180  
 catccaccgc aactacgacc tgctgctccg gcaccggctc cacatcgtct gtgaggtgca 240  
 gcttccccgtg caccactgcc tgctggcgct gcccggtgtg cgcaaggagt gcctgacccg 300  
 cgtgatcagc caccgcgagg cgcttgcgca gtgcgagcac acgc 344

<210> 29475  
 <211> 446  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3067-003-Q1-K1-H10

<400> 29475

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cagccaggag ctcaggtcca tctggataga cctcctcgcc aagtgcgacg cgtcgctggg 180  
gatgaagatt gccacccggc tcaacatgaa gccaaacatg tgatgcttct gctgaataat 240  
aatgaagaca cgcatgcatg tcgtcgtcag gaacaagaga aataatacaa gaccagcacg 300  
catgggcata ctctatatta tagatggcca aaaagcacga ggcccgtgag cccggcacga 360  
agcccgcttt ttggggcccg tccgagcacg gcacggtaga ataagcgggc gggcttgaac 420  
aggaaaactag gcacggcggg ctagcc 446

<210> 29476

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A9

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ctagagcatc tccgagagca aaaacccttg ttacagtttt ccaactcaca ttctactata 180  
tattaggatg tgttgggcac acatggaagt aaggcaaaat gatgcatcga catgtgatac 240  
gtgagcacgt atttcaaaac ccgatagggt gggttgagtg ggcttcttaa aattattact 300  
ccgaagcgtg caattgagat tgtagtatta taatacccac gtatttgtaa atctgggtatc 360  
gtcgatgctt taaacaccca tctatatata gctcactcac tgctgctgtt actggcattt 420  
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<210> 29477

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B1

<400> 29477

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gtcctatgag gaactattag cacttgagga aaggatcgga aatgttagca ctggcctcag 180  
cgaggaagct gtgataaagt tgctcaaaca aaggaaatct tcatcgtgga gactaaaagc 240  
atctttggac ccagaacat gctgtatttg ccaggaagag 280

<210> 29478

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B11

<400> 29478

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gccccctctgc tgcgatgtcg acgacaacac ctttgctgcc cgacgggagc catctgatta 180  
cagataaaaa ttttcctagc tgtaaagctc tataccacca gatactgcca tatgatggta 240  
tggttgggta cccgtctttc tagggagttt cttttctctc tctctttttt cttattgtta 300  
tgtttttcaa tagtggagtg tgcgcgtgtt gtaatcggtt ttacctgcgt ttttctctaa 360  
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<210> 29479

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B12

<400> 29479

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atacaatgat aaggatgttg atattggaaa gccagtcttg acatcacgca catcatgtca 180  
ggatgttcca ttgctcttac ctcaagagct tgaacctcgt gaattatcca gttcagattt 240

aagggtgaat gatttagata ttaaccattc agatcgttta aacaagaaga actttaatca 300  
gcctttgctc aaccgaaagg caaaactgga ttcttctcat taggatttac ctattataat 360  
gtttgtagac aatttta 377

<210> 29480  
<211> 241  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-B3

<400> 29480

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gagctcgaga acggcgctct gtgggaggtc gagggaaagt gggtcaccca aggtcctgtt 180  
gatgtagaca ttggtgcaa ttcacccgcc gtgggttgtg aggatgaaag cgcttatgac 240  
a 241

<210> 29481  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-D10

<400> 29481

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agggatacta aaataaaggg tgggtgtttc aacgattgca atcttactat accattactt 120  
gccttgagtt aactgtgcta taggggtata acaactgcaa ctaattaaac cttgtttttac 180  
accaacttaa ttgcctagtc ccatattacc acttaattaa aactgtttta tacctataat 240  
gctttctcgc aattgccctt ccaaacatta ggactggctt aatcgccaat gagaatcact 300  
acgcacccat aatgtatatt ctgacgcacc ttaatacact cccttaataa cctcttgatt 360  
tgacgatact ctata 375

<210> 29482  
<211> 446

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-D12

<400> 29482

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gttctgcgtc gccagatata ccgggacttc aggaagcctt tgattgtgat gtccccaag   120
aacctccttc gccacaagga ctgcaagtcg aacctatctg aatttgatga tcttgcgggc   180
caccctggat ttgacaagca ggggacacgc ttcaagcgtc tcattaagga ccagaataat   240
cacaaggacc tagaggaggg aatcaaccgc ctagttcttt gctctggaaa ggtgtactat   300
gaactggatg aagaaagaag gaagtcggag cgcactgatg ttgctatttg tagagttgag   360
cagctctgcc cgttccccta tgacctcatc cagcgcgagt tgaagagata tccaaatgcc   420
gagatcgtgt ggtgccaaga ggagcc                                         446
  
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<210> 29483  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-D9

<400> 29483

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taagactctg attgcaaatt gaatgttcaa caatgctcat ataaggctca cgctcaccgc   120
tggaagaaag gtgacatctg gaatgagtcc agctttcaat ctttatgggt gtgccttgat   180
tgtgcttgca gagtggaaac caccagtta tgataactct catgggataa aattggttac   240
tgccaccaca cgtcgaaatt ctccaaatag tatagattcc aagattcatc acaacaatct   300
tatcaacaat attctggcaa agatagaagg taatcttgcc caggctgagg atgccattat   360
gctagataag gatggctttg tatcagaaac aaacgcaaca aatattttta tgggtcaaaaa   420
gggaattgta ttgacacctc atgc                                         444
  
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<210> 29484  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E10

<400> 29484

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gggttcgggt tcgtgggtga gcggatcgag atggcggcgt cggatgttga gtaccgctgc 120  
ttcgtcggcg gcctcgctg gccacggac gaccactccc tccacaacgc cttcagcacc 180  
tacggcgagg tcctcgagtc caagattatc ctcgatcggg agacgcagag gtcccgcggc 240  
ttcggcttcg tcaccttctc cacggaggag gcgatgcgga acgccatcga gggcatgaac 300  
ggcaaggagc tggacggccg caacatcacc gtcaacgagg ccagtcctcg cggcggccgt 360  
ggaggcggcg gcggcggcta cgggtgtggc cgtggaggcg gcggctacgg cgggtggcggg 420  
cgccgtgatg gcggcggcgg c 441

<210> 29485

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E11

<400> 29485

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tgattgatat ttttatagtg gtaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaattac aaacaaaaaa 180  
aaacaaaaaa ataacaaaaa atattaaggc accaaaatta aattaaacaa gcccgaattt 240  
taaaaaaatc caaacttgta aaaaccttaa tatacccaac ttaaaagcct ttaacaaaaa 300  
cccccttttt ccaactgggg ttattaccaa aaagccctta ccaaatcacc tttccaacaa 360  
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<210> 29486

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E12

<400> 29486

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gaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaa aaaaaaaat aaaaaaaaaa aaaaaaaatg ttggcttcat aacttcttta 180  
ttttttaatg caaggtatct actatttaaa tagttttctt taaattaatt taaattatca 240  
atttgtttaa aaagcttttt aaatggtaaa acctt 275

<210> 29487  
<211> 97  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E5

<400> 29487

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tgaccttcct ggtggctttc ttcacccat ccagctt 97

<210> 29488  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-F10

<400> 29488

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ttcaatctcc gcttcgcgca ccagagcgcc acccttggct gcgccatgac tttctccatc 180  
tacctgcccc cgtccccggc gtccaacctt cccgtgctgt actggctctc gggctctcacc 240  
tgcaccgacg agaatttcat cataaagtcc ggcgcccagc gcgccgccgc tgcccacggc 300  
atcgccctcg tggcacctga cacctcccca cgtgggttaa atattgaagg agagtacagc 360  
agctatgatt ttggtgtggg tgccgggttt tatttgaatg ccacaaatga aaagtggaaa 420  
aactggcgca tgtatgacta catt 444

<210> 29489  
<211> 446

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-F11

<400> 29489

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ttcggttatg caggcaagaa ataatgctcg ggtgctgtta tctggatcac tcgatctgtt   180
tagcaaccgg ttcctgaagt ctggtgttca aaaggctgat agcaaaacaa gatatgagag   240
agctggaaac gagcaatttg tggcagagat aagcaaattg gttttccatg agagggggaca   300
tctaaaggct gttaatgtta ggcatcacia gggtggggag accaatgaac caggcatgta   360
ccgcattaat gatgacctgg aatactctgt tgagatctat gaatgggtccg gaacaagctg   420
gaagccgtat gttgctgatg atgtgc                                     446
  
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<210> 29490  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-F12

<400> 29490

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cgcggactga ccgtgacgct gcaccggccg tccgcgtcgg cgcggcttat cgcgcacgac   120
gacgaagacc aggcgctgtg ctccatctgc atcaccgcgc tgggtggccag tgagaagggtg   180
aagggtgctc cgccctgcgt ctactcatgg ctacggctct accccagctg gccgctctgc   240
cgccggetac tagtactcgg cgacgccaat gtgtgatcag cggcggggccg atgccccgac   300
caggagtgtc taagcagcgc attactaggt aatgtaatgg agatggcagc gaccaccgag   360
accgagtagt gagatctact agtactgagt gcgatgtaa ttaaagacta tactactaaa   420
agaagcgctt atcaccaat                                     439
  
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<210> 29491  
 <211> 76  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-F3

<400> 29491

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gagcggcaga tgaagg 76

<210> 29492

<211> 188

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-003-Q1-K1-F6

<400> 29492

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cggcattgcc agtaggaaca aggtgtctgc gctgctcttc tgcttgttgt tcctggccgc 180

ggtcgtcg 188

<210> 29493

<211> 448

<212> DNA

<213> Zea mays

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<400> 29493

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ggccatcgaa aacgccgccg ccgcctctga tgctttccgc cgtgatggcg gcggcggcta 120

cggcgggtggc ggccggcggt acggtggcgg cggtggctac ggtgggtggg gtggcggcta 180

cggcgggtggc aaccgtggcg gcggctacgg caactccgac gggaactgga ggaactgagc 240

ggtggggccc gcgcggccaa gttatcctgt tcgctaccgt gatgtttacc ctagtccaga 300

gggtttatct tcgttcgtct cgtttgttgg tgcccatctg tgtttttgat tgcaaggctg 360

ctctgtgtca gttgttagtg ctgtgttcat cctcggctcc agcagacca tgcataaacc 420

agcatggact gtggatcgat ggatgctt 448



<210> 29494  
 <211> 407  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G11

<400> 29494

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cctgctcgcg cggcgctggg cggcgggcgc ggcccgtgc tgggcgggtg gaacccgatc  180
cctgacgtga ggcactcgca catccaggag ctaggcgggt gggcgctggg gcaggcgaag  240
caccagaagc tggccgccga cgggctgcgg ttccgcgcgc tggtgcgcg cgagcagcag  300
gtcgtgtccg ggatgaacta ccgcctctac gtcgacgccg ccgaccccg cgcccgacc  360
gtgccctacg tcgccgtcgt gtacgagcag gtctggaccc gcacccg                    407
  
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<210> 29495  
 <211> 341  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C9

<400> 29495

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ctcagtggag gttcgactat gttcccggga atcgctgac gtatgagcaa ggagatcact  180
tcccttgca ccaagcagcat gaagatcaag gtcggtgcac cgctgagag gaagtatagt  240
gtctggatag gaggggccat cctagcctcg ctgagcactt tccaacagat gtggatatct  300
aaggaggagt acgatgagtc tggcccgga attggtcaca g                          341
  
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<210> 29496  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G12

<400> 29496

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tgcaggacgc tctactaaca cgccatcagc cacacgtaca tcatgcctga cctaccagca 120

gatgcatgca tacacaacac atgaaccgtg tacattgaac acaccgtacg attatgcctc 180

ccgatcgagt gctagcacta actatcagac catcacttgc ccatatttct gagcaggact 240

aacatgtacc cgtcaagctt agctttcttt gtccaccatg tacgttcaca agcatgagta 300

gtcattcagg ttcataatga at 322

<210> 29497

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G5

<400> 29497

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ggctattggt ggacaggaga ttggtccaga gaaagccagc gtcaacttgt caggctggag 120

cacatgtttg atgggaggca tctaccatac ggtctcacca acacaggaca acagatacct 180

tagaacttgt cgaggcaaga agtcttggac aggttgaata ggatcgctgg actgg 235

<210> 29498

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G9

<400> 29498

cggacgcgtg ggcgacgcg tgggcggacg cgtgggcgga cgcggtggcg gacgcgtggg 60

aaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaagg ggatgccttt ttagaggatc aaatttaact tacgcgggta 180

tgaaatgtta tatctattat atagggtcac caaaataaaa taaactggcc ggagtttaaa 240

aagatgaaga ttgaaaaa 258

<210> 29499

<211> 223  
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 <213> Zea mays  
  
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 <400> 29499  
  
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 agcatggaca cccaagtga gcttgctgtt gtggtaaagg tgatgggcag gacctgctcc 120  
 aggggtcatg tgaccaggt cagagtga aa ttcttggtg accagaaccg tctcatcatg 180  
 aggaacgtta agggccctgt tcgtcagggt gacatactga ccc 223

<210> 29500  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-002-Q1-K1-H4  
  
 <400> 29500  
  
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 tgcgctcctc gccacatgct gttacaggct gtcgtaccgc tgtccacggt tgagggcctt 180  
 gtgccggtca tggtgaagaa gaagcccatc gactagatct agctcgtcgt cgggcgcctc 240  
 tctgccgaag agagggagcg cctactacga ggtgccagct cgtgctgatg tcactactgc 300  
 ttccactcct ccagagtc cagtacacc ccggttgtg gcatcgctgc tcgccgcggc 360  
 cctgcacctg agccctgcct acatcccgag tcacacacct atcctttgaa gaattaatgg 420  
 cgactggaag cagggtt 436

<210> 29501  
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<210> 29502  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-002-Q1-K1-H7  
  
 <400> 29502  
  
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 gatggcccta aagatgtttt cccggatgat gtttgtgctg ctggaccgtt tcctgttagc 180  
 ttcgatggca tcctcccat atcgataaac tgttgcttag cctgacaatc ggaagagttt 240  
 aaatgttaaa gatttgat 258

<210> 29503  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-002-Q1-K1-H8  
  
 <400> 29503  
  
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 catagacagc tgaatctttg atttacctca aacagtgttt acttatatat ggtcatatgg 180  
 agtcggggca cgaatacata ttttcttctt gtatgttcta tcttctgcgt tccagcaaga 240  
 tgtgttggtt aactacaata cagagggacg gtggccggct tgtagaggaa aggcttgacg 300  
 gtgtgcggat tcccagacgg atttggttga agtgaacttc accccagagt gagcatcacc 360  
 ccgccgtgtg caatgtagat ggaagctgct cataggcctt gg 402

<210> 29504  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-002-Q1-K1-H9  
  
 <400> 29504

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tgagcgcccc atccttggac gcttctctc ccacctcaag atcgggatcg ttgggttgcc 180  
aatgtttggc aaatcaactt ttttcaacat agtaacaaag ttggctatcc cagctgagaa 240  
ttttcctttc tgtaccatcg aaccaaataga agcacgggtg aatgttccag atgaacggtt 300  
tgattggctc tgcaaacttt acaagccaaa gagtgagggtg cctgcatatc ttgaagtaac 360  
tgacatagct gggcttatta gaggtgctca tgctggggat ggtctgggca atgcattcct 420  
ctcacatata cgtgct 436

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<213> Zea mays  
<223> Clone ID: LIB3067-003-Q1-K1-A10  
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ccaaggatat caactcagca aggtggttga atcacattga tgcgctctat aggctgcacg 180  
gaattactgc aaagggccaa ggtgtgtagg ttgaatcaca tgcagctcct tcagacccat 240  
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acctttgtga tgaggagacc gaatatgaga agaacgctgc tgaagagcgt gctagaactg 360  
ccaaggctct tggcaagaag aaagaatctg ggaagtcac agtcttactt gatgcgaagc 420  
catgggacca tgagactgac at 442

<210> 29506  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-003-Q1-K1-A11  
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 agaaaattta tctgggtact tgaggattat tacaagcata aagctataga acacattttg 180  
 attttgtcag gagatcaact ctatcgtatg gattacatgg agcttgtgca gaaacatgtc 240  
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 <212> DNA  
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<223> Clone ID: LIB3067-003-Q1-K1-A6

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<223> Clone ID: LIB3067-003-Q1-K1-B11

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 gtcgcagatc ccgccgcgga gggacagga gaccagcgcc tggtaataag ccaagcccg 180  
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<210> 29509  
 <211> 392  
 <212> DNA  
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<223> Clone ID: LIB3067-003-Q1-K1-B12

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gtacaggtgc cgcgacttcc tccccgaaaa ctgcggctgc aagatccact agagactcat 180  
ccaattccac catggccgcg cgccacagcg gcacagccga tggatccttc catgttcttc 240  
cgccccgccc ccttgctaca agcaggcagc cacaccaata agctagctct tgttggtgtt 300  
ttgtatgttt gattgggtgt cccttcccag tcgagatgga ataaaataaa tcatcaggcg 360  
ccaataagca aaaaaaaaaac aaataaaata aa 392

<210> 29510

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B5

<400> 29510

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<210> 29511

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B9

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tgacggcgat cctggagaaa ggcgggcagt tcaccatggt catgcggctg atgaaagaga 120

cgcagcaaga cacgcagctg aacagccagc tgaacagctc gtacgcc 167

<210> 29512

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C10

<400> 29512

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ttaacaaaaa agattgaggg gtagcataaa aaaaagaagt aaaatacaac cactactctt 180  
gttcatcatc atcatctcct acagtatcat cgtgtgcatg gaccagga gacagagctgc 240  
agcgttcttc cctcctccgt tccaggcacg aacgaacgcc cggatcccgg agccagaggg 300  
ctcggtcaca ttatatactc gtcgtactca catcgcgctca ggtgccttat tgcattccct 360  
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gtcgcgagg atgagga 437

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<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C11

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ggaaagggca agtcacaaat tttcctattc tttctaccct tgctcgtgat gtgttgtcta 180  
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cattccgttc aagactcaaa ccagaaatta ttgaggcatt ggtttgttgt aaagattgga 300  
agattgcttc ggagaaagat ttggagattg aaattaaaac cttaagtga gctatgaatg 360  
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tggtatgatg tgaacttggt act 443

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<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C12

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gctcaacttc atcctcaccg tcgccggcct cgctatggtt ggttacggga tctacctgct 180



cgtcgagtgg atgaagatat ccgaggacgg catcggcggg gcttcgacgg cggaggtgct 240  
 cgtctctggc cggccgttgt tgggggctgt cattctcggg gacagcttcc tcgacaatct 300  
 acccaaagca tggtttatat atttgtttat tgggtgttggc accatcgtea tcttggtgtc 360  
 tctgtttggc tgcattggag catggacaag aaacacctgc tgtttgtgtt tcgtatcctg 420  
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<210> 29515

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-C5

<400> 29515

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 cggcgccata tatgtggagg gtcctgatcg agctcaagcg gatggagaac aagttcaatt 180  
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<210> 29516

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-H11

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 gcaaggaact atagaacaac tacgtaacct atgaagtgtg ggcatggaca atatcttttc 180  
 acccaggagg ctcaacaggc agaacagctt tggtagcata ggcaactctc ggactccaac 240  
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 attacaaggc gagatttccg aatccaaggc caaatgtatg gcactgattt ctcaagcaag 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-003-Q1-K1-C6  
  
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 aaggagatac atgttcatgt tcatttaggt gtcagttcat ctgatgtctc agaagcaaaa 180  
 ttgtgtttgg agctcagtga caccattttg taatgcatgt tcctttt 227

<210> 29518  
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 <212> DNA  
 <213> Zea mays  
  
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 aagaactgag ccaactgataa ggactgaaac tgctcacgtg ctttgttgtt agcagagtgc 180  
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<210> 29519  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-002-Q1-K1-F3  
  
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aactactcgc gccgaggtcg acctgaagct gataaaggag gcttatcaga agagaaacag 240  
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 tgccctcctt ggggaggagt gaggaggcgt gcctcaactc gatctcatct gctcctactt 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F4

<400> 29520

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 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F5

<400> 29521

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 tacttcacct tgctgacag atacttcag aaagtcattc gactggctct tgaatgcatg 180  
 ggacactgatg aggatgacct caccagtgtc gtaactactc gcgccgaggt ccacc 235

<210> 29522  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F9

<400> 29522

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caccaaaact tactatattc aacataaaaa cacttactca aaacactcct tacatcctct 180  
acaacattat atttccacat ctctaataca caaagtcatac taatctcttt caacgatcaa 240  
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<210> 29523

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G1

<400> 29523

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gtcatgggtc tacagataag ataactgcaa ttactatga cttggtctct gaagatgtca 180  
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<210> 29524

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G10

<400> 29524

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ccatttaatt ctgggaatga ctgctaattg tgtcaactaa tactgaatgg aactttgata 180  
tgcagagtta aaaggacact gtttcactat cgtcgcacaa actatatata tgtagcctaa 240  
atctaacttg aggactagaa tcagaactga tggccctgtc tgcataacaa ggatgtccaa 300  
tgagacacta ctggtttcac gcatggaata cttctcggaa gtcatgaccg tttacaagcc 360  
aaggcttctt acatcactga agctatagge aatatattga tctgatg 407

<210> 29525  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G11

<400> 29525

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gcttgctgat atctgtaaag aagtcgggtc tcctcccggg gtcttaaaca ttgtgacagg 180
attaggtcct gatgctgggtg ctctttgtc agcacacca gatgttgaca aggtcgcttt 240
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tgttacactg gaacttggtg gaaaaagtcc tatagtagta tttgatgatg ttgacattga 360
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<210> 29526  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G12

<400> 29526

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gagaacaagg ccattgccaa ggtggcgaaa acccagccgc cggtcgctaa cctcgaggag 180
ctcaagaagg atggcctcca gttcgccagc aagatctgag acgctcccg tccatgtaaa 240
attccgtgtc atcgtgaagg ttcttctgga gctctgggtc tgattgagaa atgttctgct 300
acagatgtta tactacatac gtgactacac tacatgatat attcggtttt ctgattgtga 360
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<210> 29527  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-002-Q1-K1-G2

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aagatgttac cgtgacaact gataatggaa agtcgttcac ttgcacactc agattcgaca 180  
ctgaggtgga gcttgcttac tacgatcatg gtggcattct accatatgtc gctagaaaga 240  
tagcggagca atagattgta ccgttgagat ggttgcgata cttgcggtga atcgtaattg 300  
gtgtaaacgg tttggttagt agtacaaccc atttttgcgg actacttata ataacctctg 360  
agtatctcag agtgagctgt ctgaaatttg atgaactgct acaattctgg tgcgccatg 419

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<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G4

<400> 29528

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agttttcatg tctgatctcg acattcaaat cccaactgcc ttcgatccct tcgctgaggc 180  
caatgctggg gactctggtg cagcagcagg gtcaaaggac tacgttcacg tgcgcatcca 240  
gcagcgtaat ggtcgcaaga gcctgaccac cgtccatgga ttgaagaagg agttcagcta 300  
cagcaagatc ctcaaagatc tcaagaaaga gttctgctgc aatgggtacag tgggtccagga 360  
cccagaactt ggacaggtca ttcagctcca gggtgatcag aggaagaacg tctcgaa 417

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<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G5

<400> 29529

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 cattgggcta aaactcgacg tgtaaatgaa acttatcaag gaacactttc tagttatgcc 180  
 tatgtgatta tgtgcattca cctectacag ctgcgaagaa tactcccatg tctacaggaa 240  
 atggaggcca cttattatgt caaggtggaa gaaattaact gcgcttactt tgaccaagtg 300  
 gacaagctaa ataattatgg tgctcacaac agagatacag tatcaaggct gctctgggcc 360  
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<210> 29530  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G6

<400> 29530

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 tatgttacct tctcatctga taatcaaacg ttgttctctt gcacactaat tttaaact 180  
 ccagttgaac ttccttactt ctatcatttt aactttttac catatatacc tattttgata 240  
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<210> 29531  
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 <212> DNA  
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<223> Clone ID: LIB3067-002-Q1-K1-G8

<400> 29531

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 cgaactgact aggagctccg gatgtatcat ggaaacttag gacagaatcg cctcttcaac 180  
 ctgttaggtg tcttctaccg gcacaatata tttttgttt ggaatatgta atgatgttac 240

ggttcaacgt ttattctacc ctactatact gttggatggt ctttgggcct gggtcatttt 300  
gcacaaggat tggaggtcca atatc 325

<210> 29532  
<211> 409  
<212> DNA  
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<223> Clone ID: LIB3067-002-Q1-K1-G9

<400> 29532

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ggctaccaat tgatttaact tatacggttg gtgactttgg tatgcagatt aagaagttca 180  
gggatgcact tgcaaagcac aaagcagata aatgtagcct tggcccaact tggggactag 240  
aatcagaact gttggccctg gctgcaaaca aggatgtcca aggagacact actggtttca 300  
agcatggaag acttcgcgga ggtcaggacc gctgacaagc caaggcttct gacatcactg 360  
aagctatagg caatataggg atctgatgac atgcgagaga tgaaatgtg 409

<210> 29533  
<211> 414  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-H1

<400> 29533

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ccaggggtca ggtgaccag gtcagagtga agttcttgga tgaccagaac cgtctcatca 180  
tgaggaacgt caagggccct gttcgtgagg gtgacatcct gaccctgctc gagtctgaga 240  
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ttcaatgttt gtcgaacttg ccgtgtgacc catactatat ctgctttggg atttagtaag 360  
cctggattgc agtttttttt atgttcctgg tggaaattgc aattgtttgt cggc 414

<210> 29534



<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F2

<400> 29534

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ggtcgaggaa tgctggcttc gaccttttct tttctttttc tttctttttt gtttcgacat 180  
gtagatgcaa acttcgagag gcaagcatgt gtggtctttg tgagattacg gcgatatctt 240  
atatcgtcaa ccataaccga agtcctattg ataatttaag gatttttggg aggcctcagg 300  
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tggtgaggca caatctttat tcccttgc 388

<210> 29535  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D6

<400> 29535

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cggcaggtgg ttcccgtgg agatgacaac gatctggagc tgaacgcgga gtcccacttc 180  
ctgagcttcg tgcagcgggt cggcaagtcc tacaaggacg ccgacgagca cgcgtaccgg 240  
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gcggagcacg gcatcactaa gttctacgac ctacgcccgg cagagtccg acggacctac 360  
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gcg 423

<210> 29536  
<211> 420  
<212> DNA  
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<223> Clone ID: LIB3067-002-Q1-K1-D7

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tgcgatacca aaggctatat caaatgctgg attagagtca tcccatgttg atttttttga 180  
gattaatgaa gcattttctg ctgtcgact tgcaaatcaa aagcttcttg ggattccttc 240  
agaaaagatt aatgtccatg gaggagctgt gtctctaggg catactcttg ggtgcagcgg 300  
tgctcgcat tgggtcacc ttcttgggtg ccttagggaa aagggcggca agatcgggtg 360  
tgctggtgtc tgcaacggcg gacgtggagc atcagctctt gttctcgaac tcgcataaga 420

<210> 29537

<211> 238

<212> DNA

<213> Zea mays

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<400> 29537

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tgcgatacca aatgctatat caaatgctgg actagactca tccaatgttc atattgttga 180  
gattaatcta gccttttctg ctgccgtact agcaaatcaa aagttacttg tgattgct 238

<210> 29538

<211> 382

<212> DNA

<213> Zea mays

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<400> 29538

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gcgaagcagc ggacgacgct ggtgttcacg tacgggacgc tgaagcgcg cttctccaac 180  
caccgcctcc tggaggagct ctctcgagc ggggacgcgt cgctggtggg ccccgcggtg 240

acgtcggcgc ggctgccgct ggtgtgcggg ccgtaccggg tgccgttcct gctgaacctc 300  
cccggcgccg gcgcgggggc gcaccgcgtg cgcggggagg cgtacgcggt gacggggccg 360  
gggcttgccg ggctggacga gc 382

<210> 29539  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E1

<400> 29539

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tgtggagaaa tatgctgcag atgagaaggc attctttgat gactacaaag aggcccacct 180  
caagctctcc gaactggggg atgctgatgc ttaaattgtc atatacctgga gcgggacaca 240  
aactgctgcc tgtatggact cgtgccaatc aaggatgaacc atcagattgt ctagaggctt 300  
ctttggaata aatttatctg gtcttgggac tttggctatg ggtgaatcgg aaccattttt 360  
ccgttt 366

<210> 29540  
<211> 443  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E10

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cgccctccct gaggcaacca tcttaacaac aaaagaggct cgtacaatca cagctgcaac 180  
tgctaaacca cttgtgcatg caaagtatca aaaaggaggc cagacacagg ttgatgaaac 240  
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cgcttccccg caccctccac ttccttgctg tcgtgctgat tccagatcaa ggggtagtga 360  
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gctatggtac ttttgatcct ctg

443

<210> 29541

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E11

<400> 29541

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gtactccatt ttgaaagtgt ccaagtgaga ctttatacat atatgcagtt gagagatgg 119

<210> 29542

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E12

<400> 29542

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cgaggatgtc ttgcagctgc ggatcaagct gcggctgcgg ctcaagctgc aagtgcggca 120

agaagtaccc tgacctggag gagacgagca ccgccgcgca gccacacgtc gtcctcgggg 180

tggccccgga gaagaaggcc gcgcccaggt tcgtcgaggc cgcggcggag tccggcgagg 240

ccgcccacgg ctgcagctgc ggtagcggct gcaagtgcga cccctgcaac tgctgatcac 300

atcgatcgac gaccatggat atgattatta tctatctagc ttgtggtggt ggttgaacaa 360

taataagcga ggccgagctg gctgccatac ataggta 397

<210> 29543

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E2

<400> 29543

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ctttgtggat cgatggaggt tgcctctggt cattcggatc ccatgtttaa ccttgatgac 180  
gaacattgta aaaagcattt tgttttatgg actggaatag tctgcataca tcaccatagc 240

<210> 29544

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E3

<400> 29544

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ggagggaat 69

<210> 29545

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E4

<400> 29545

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gggcgtgaca cctccaagaa ggacgagggc aggctccggg cgggcggcgc cgccggaaaag 120

cgcaagaagg ccgccgcgag cggcaagccc aagcgcccgc cctccgcctt cttcgtcttc 180

atgtctgaat tcaggcagga gtatcaggcg ctgcacgctg gcaacaagag cgttgcgacc 240

gtgagcaggg cagcagggga aaagtggcgt gctatgtcat atcaagag 288

<210> 29546

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E5

<400> 29546

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gtggagaaat atgctgcaga tgagaaggca ttctttgatg actacaaaga ggccacctc 180

aagctctccg aactggggta tgctgatgct taaatgtcca tatectagag cgggacacaa 240  
 actgctgcct gtattgactc gtgcgattca aggtgaacca tcagatggtc tagagattgc 300  
 tttgtaataa atttaaacta tcttggtact ttgtc 335

<210> 29547  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E6

<400> 29547

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 tttcatgtct gatctcgaca ttcagatccc aactgccttc gatcccttcg ctgaggccaa 180  
 tgctggggac tctggtgcag cagcatggtc aaaggactac gttcacgtgc gcatccagca 240  
 gcgtaatggt cgcaagagcc tgaccaccgt ccagggattg aagaaggagt tcacttacag 300  
 caagatcctc atagatctca agaaagagtt ctgctgcaat ggtacagtgg tccaggacct 360  
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<210> 29548  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E8

<400> 29548

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 cgccttccgt ccttgcgcac ccgccgtgcc catggacggg ggctggctga acggcgggcg 180  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F1

<400> 29549

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ccgatggtga tgaaactggt ccagttctta gtgcgggcta catgtgtgca aaaggatggc 180  
gtggcaaaac tcgtttcaac cctgccggca gcaagactta cgtgagagaa tacagccact 240  
caccacctc tactctcctg gaaggcaagg gcaccagag cggtgacat gttgatataa 300  
tggggaactt tgctctaatt gaagacgtca tcagaatagc tgctggagca accggtgagg 360  
aaattggtgg cgatcagggt tattcagata tattcaaag gtcagagaaa atcaaattgg 420  
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<210> 29550

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-F10

<400> 29550

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gctacgacga ctccactcc cagcagcagc gcgcgtcgtc agctggctct gaccgcgtgg 180  
acggcataga gtcgcgcgcg gcggcgccgc gccggcggt cgttaagaag caggtgaggt 240  
tcgcggtggc tccgccagc agccccggtg tggacgagac cgtggtggag gagctgcacg 300  
agctgtgcga ggcgcgcgag gccggcacgc cgttcactct gggccactcg cacgtgaaga 360  
ccaagcccgc gtcgtcgata ctcaag 386

<210> 29551

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D5

<400> 29551

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atctttcttgg tcggacgttg caattccacc atgctgattc tggctcgtca acatatcgtg 180  
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aatgagcgtc ttctggcttt gtgatgaaac 270

<210> 29552  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-002-Q1-K1-F11  
<400> 29552

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aattctatatt ttttcttata atgatgtgaa tcttgatggg ttaatatattat ggtttttagga 180  
caattattat ggtttcatac tatttccagt tcttttagtca tggattttttt ttcagaagtt 240  
gatgaactct accttcgcag gatctagttc cttgtatctt actgtctttt gagtttgagc 300  
atatactgat gtggagagga agtgattgga aatcatctct tctccatta gaaaatagtt 360  
atgaagtgac aaaggtgcaa gaaagtttta gtggcaaaga atctaataaa aaggttacac 420  
attcaggaaa tggtttgatc c 441

<210> 29553  
<211> 441  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-002-Q1-K1-F12  
<400> 29553

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tgagaaaggg atctctaaga tcagggccag gaagagttag ctgctggctg ccgagatcaa 180  
ttacatggcc aaaagggaga ctgagcttca gaatgaccac atgaacctca ggaccaagat 240



tgaggaggga gagcaacagc tgcagcaggt gactgtggcc cagtctgtcg cagcagcagc 300  
 tgccaccgac gtggagctga atccgttctt ggagatggat accaaatgct tcttccctgg 360  
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 ggcacagcag cgccagatgc t 441

<210> 29554  
 <211> 320  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-002-Q1-K1-C11  
 <400> 29554

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 accactccct caacaacgcc ttcagcacct acggcgaggt cctcgagtcg aagatcatcc 180  
 tggatcgggga gacgcagagg tcccgcggct tcggcttcgt caccttctcc acggaggacg 240  
 cgatgcgcag tgccatcgag ggcataacg gcaaggagct ctacggccgc tacatcaccg 300  
 ttaacgaggc ccagttccgc 320

<210> 29555  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-002-Q1-K1-C12  
 <400> 29555

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 gccgcggctt ctacggcccc ggcggcgctt acgcgctctt cgcggggccgc gaggccagcc 180  
 gcgccctcgg caagatgtcc aaggacgagg ccgacgtctt cggggacctc tccgggctca 240  
 ccgacaagga gctcggcgctc ctgcgccact gggagatcaa gttccaggcc aagtaccccg 300  
 tcgtcgcccg actgcgcgtc gacgcctgaa ctgcgcagtc tcgggtctaaa ttactctgt 360  
 cctgcctctt gcggtgttca gtgctgtgct tgcttgcttg atgctagttg ctttgctacc 420

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433

<210> 29556  
<211> 266  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C2

<400> 29556

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accatggtga gaaggacggt gctggctgcg ctggttgtgg ccgccgacct agccgtcggc 180  
gcgcgtgcgc agctcacgga ggggttctac gactactggt gccacacagg ctgaggatat 240  
cgtcaaggac tacgtgaagg cgcaca 266

<210> 29557  
<211> 392  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C3

<400> 29557

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cccaggcctt gaaggttgcc aaggctgtga agtctggggc agccaagaag aagaccaaga 180  
agatccgcac gtctgtgaca tttcaccgcc ccacgacct gaagaaggct agggacccca 240  
agtaccacgc aatcagcact accggaagga acaagcttga tcagtaccaa attctcaggt 300  
accccttac cacagaatca gcgatgaaaa acattgaaga tgacaacact ctggtcttca 360  
ttgttgacct taaggcagac aagaagaaga tc 392

<210> 29558  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C4

<400> 29558

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ggacgctttg ttgagataat cttggctata cgttttttca tataaccagta tggccttgtt 180

taccacttac atgtcacaca taacaaaagc atctcggtat atttaatttc ttggctcgta 240

attgtggcgg ttctgctcgt tatgaagact gtgtcggtgg gaaggcggac attcagtgca 300

gatttccagc tattcttgcg tctgatcaag tttttgatat ttgatgcttt cattgctatt 360

gtgattgtct tgatagtatt acttcatatg accttttcgcg atatatatgt gtgctttcta 420

gcat 424

<210> 29559

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C5

<400> 29559

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gtcggcgggc gtgtacgagg tgggcggcac cattgggtgg accgtcatgg gcaaccccga 180

ctacgccggc tgggccagct ccaagcagat cgtcgctggc gacactgttg tgttcacgta 240

taacaagcag tgccacaacg tgctggcggt gagcaaggcg gactgcaaga actgcatcgc 300

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ccaccactac ttctctgcg gctacccggg ccactgcgct 400

<210> 29560

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-002-Q1-K1-C6

<400> 29560

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 ttcagacatt cgaatcagtg tttccagtg ccttagcaca tccagccatg gctctatgaa 180  
 caagagccat caagcttcta gttctggtcg ttcgctctcc tatttttctg ctcaatatgc 240  
 ataaatgtga tctgatttgt gtagcttgct cgtcttgcta agatggaggt tgagtatcga 300  
 tgtatccaga tcatagagat tgggtcttcca atgggtaaac atattangat gagagacacc 360  
 ccgggggtct aaaatctaata gttgagtcgc cattgcaagt tctgaatttt gcaatataag 420  
 ttgactgata tg 432

<210> 29561  
 <211> 227  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-002-Q1-K1-C8

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 ggtgcgagct gattgaccac aatctgcctc atgtgatcca caaggaccgc gttgcgctcc 180  
 tgtgacatgg aactcataac gctttcggag ctatatatac aatgtat 227

<210> 29562  
 <211> 360  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-002-Q1-K1-C9

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 ctttttagttt ttttcccccc tcacccttg agattgggga ggctcttctt gcttctagca 180  
 tgcttgcttg ctgcttcttg aattgcgtga ctgttattgg ttggttcttg cttccattat 240  
 ttgcccctt ttttttttct ttttctttc ttgcttccag cttgttggtg atgcagtttt 300  
 tttttcaaga gacaagatta gtataatgtc aagtgtgaat gaagagctct atttattatt 360

<210> 29563  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D1

<400> 29563

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gtttcaacaa tgaaacttga agatcaccag cacagcttct ttttttcaga aacgtgcaaa 180
tatctatttc ttctgtatga tgattcattc ttgaggaatc aaaattacct ttttacaacc 240
aaaggtcatt ccccttcaat aagaaacacg tggcatgaag aattttctgg aacatatgtt 300
cccaggcatt ggacatcttg taagggttag gttcaacca tttgcgccag cgcattattg 360
tcttaagggt tgccccgagac cattttc 387
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<210> 29564  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-D10

<400> 29564

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aaggatatag attctttcat ggcgtcagac ttcaagctgg ttggctatga tcctcaccag 180
aagctagaga tgaaaatggc agtgtaacgg tggcttagct ctggagcccc cagccttgga 240
acctcgggtg gtgaaatcag tcgaacgaac tgggtactaca taaaaaatga accggacatc 300
gcactagctt gtttttggtg atggtgctga atgttggtgc ggaggcggtt tcccccgtaa 360
ttagtagcga tctgcgtgct atatatggtc gctgaagtca aaattgtctc tcttttattt 420
ttatctacta ctactactca 440
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<210> 29565  
 <211> 440

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-002-Q1-K1-D11  
  
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 gacagaggat tctaacagtg atgaaagcgg ttcgttcttg ttagatgata attcgagcat 180  
 cccgttctcc gtggatgata tcaccaactc aatgcatgag aaggacttca cggatatcaa 240  
 accggctgat gagctactcg agaaccctgc cttccagttt ttacaggatt agcgctagtg 300  
 aagtcctoga gcattttatg ctgctagata tcttgtcaga tcattttattg atttggtgta 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-002-Q1-K1-D12  
  
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<210> 29567  
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 <212> DNA  
 <213> Zea mays  
  
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ttcttttatt tgtacatggc ctgggttggtg ctgcttgoga ggtcctaaga tgctcatagc 180  
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<210> 29568  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-002-Q1-K1-D4  
 <400> 29568

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 gagtgaggaa gctgcagtac atctcggagc ttgaacggag cgtcaccagt ctccagatgg 180  
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 acgtcacca agaggcgtg gagaaggaga tccagcggct gcgccaagtg taccagcagc 360  
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<210> 29569  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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agaagctggg cgttctcgc 439

<210> 29570  
<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A4

<400> 29570

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tcgttgggtc aagcacaagc ttgcgtagag tgggcagaca gttcgggtgtt tcctttgtcc 360  
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<210> 29571  
<211> 386  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A5

<400> 29571

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gtagcagata aatcaggttc gaaccatcaa tgggcccaat gtgaagattg ttccaaatgg 180  
aggaaacttc caatagatgc tctgttgccc tccaaatgga cctgctctga caacaaatgg 240  
gatccagaga ggtgttcttg cgaatctgca caggaaataa gtatagagga gcttgcagaa 300  
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gcttcagatg ggctggacac gcttgc 386



<210> 29572  
 <211> 452  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A6

<400> 29572

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 attcaaggag ttctgaagg agaaggtttag agaaaggaag agagagctta aacaggctaa 300  
 agaagccagg aggaaagcta ttgatgatat ggatcctaag gtgaaagagg cattcgagaa 360  
 catcaaattt taaaaatttt atcctgtgaa aaccccagac acgcctgatg tagacaatgt 420  
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<210> 29573  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A8

<400> 29573

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<210> 29574  
 <211> 399  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A9

<400> 29574

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tacacgtcgg ctctgtcttc tccccgcgac ggggcggaat tttccccctc acgttctctt 180

cccgtcgcaa aggtcttgtc catggcgccg gctagtttcc ggtgggattt ctcgaggcg 240

gtctcggagc tgggatcgag gggaccactc gggtcgaagg tgcctactcg cgataatcgg 300

ccaagcgctg tgtgccctcc tcgaagctca gtgccgagaa aatgaatcgc agcctggatc 360

tggcatcctc gtcgtcttcg attcaatcga cgcttctag 399

<210> 29575

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B1

<400> 29575

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ccccgcaccg taaccctagc agcagatcgg ccatggagag ctgggcgacc tgtgtgggga 120

caagcgtcac ctccggcttc ttcgcctgcc tcgagcgtg ctctctgcat aacctctcca 180

ccgacgacga cgacgacgac gaggaccacg acgaggccaa aggccggggc cttattcttg 240

gcggccgccc aagccactac ttcggcgga agcccgatcc agacttcggc ggccaggacc 300

aggacgacca gaagcaagag caggcgggcg tgccggccgt atgaatcgga cccgattcct 360

tgcttggact agctgctact gctggtatgt cgccaaataa agtcgtgtgt gcgtgtg 417

<210> 29576

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B11

<400> 29576

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 ttcttctctg gcaagcacag gggccgggag gagatgcgaa ccggcgctcg cgcgaggtc 180  
 tacggcacgc cgctgccgcc gcccgcgctc gtcggagtct catcgccgcc gcctgagccg 240  
 attcacgcca agaaacaagg gcccgagcc gtctgattga gatccattcg tttctaccta 300  
 ctactgccta tgttttgggt atgttgatt tattcttct tctttatctt cgtccagacc 360  
 gtgtcgacgg gtgtaagctg agagtgaata tatgtttgtg tctaaaaatt gttcattgtt 420  
 acgacttacg aggggagggg gtgat 445

<210> 29577

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B12

<400> 29577

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 aatataataa ataaaaaatt aaaacaaaaa aacattctac ataattatta aattataatg 120  
 taaattaatt aaaattcact agttgacggg atacgacttc atgccttgta ctaactcacg 180  
 tataccgtaa cttcactaaa ttgaaccata tgacaataaa acgactggcc tagcttagcc 240  
 taattgatgg acctaaataa tgtaccaa atgtgtgatg catattgatt cttctcatcc 300  
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<210> 29578

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B2

<400> 29578

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 ttgttgttgt agcatgtgat ggcatttggg actgcatgtc aagccaacag ctggtggatt 180

ttatccacga gcgtataaac acggagagca gcctgtctgc cgtgtgagag agagtgcctgg 240  
acagatgcct gggtccatca acgatcgctg gagacggatg cgacatcatg accatgatcc 300  
tggtgcagtt caaaaaacct gtcgatcgga acaagaaggc cgaagcagca gggcaatctg 360  
ccagcaatgt ggacgaagcc aagagtcgtg ttgctgagga gtgaagcatg gctggcac 418

<210> 29579  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B3

<400> 29579

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ggctaatatg tttccaagta tatttctata ctaagtcgta gattgaaagg gaaatggagt 180  
cttcggcgaa gacaaggctt ccaactcaact ctatgggtgt tatctaccct ttggcattac 240  
ttcgtaatct at 252

<210> 29580  
<211> 224  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B4

<400> 29580

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tgcgcaccca cttaggtgga ggcaagtcca ctggcttaag cctcatctac gataaccttg 120  
agtctgccaa gacgttcgag cccaaatacc gccttatcag gaatgggtctt gctactaagg 180  
tagcaaagtc ctggatgcac atgaaagagc ggatgaacag ggcc 224

<210> 29581  
<211> 261  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B5

<400> 29581

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gcaacttctt ggacgatgac gttgacaagg agcagattac attgcgacga ttgactgctc 120

tgcaggtgcg tgcgtgctg tgtctgtacc tctttttttg tttcttgggt tctttacttc 180

ctttcattga ggccactgag ttacaggacc tgaggcgccg gccacaaatc gcgatttttag 240

taggaacccc cccgtgggat t 261

<210> 29582

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B6

<400> 29582

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gtgtgtgatc atgtctggca tcatctgcaa gtgcaactgc ggctacagct gctgctgcag 120

cagctcatgc aactgcatgt gcaatgacgt ggagaccgac gtcgacagca gcatcaagac 180

catggctctc actgtgccga ccaactaaggc cagcaccagc ggcttcgacg cgggcaccga 240

gggcggcagc tgcgactgca acagctactg ctgcagctcc agctgcggct gctgctgctg 300

cagctgcagc tgaaccggcc cgtcaggcct ggcgatcggg cagcagagtc gagaggacaa 360

cgacgacgac gcgtataact atgcttaata gcatcgtcta tatcaga 407

<210> 29583

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B7

<400> 29583

gtttcctgaa tctttgtgtt ctttattgga gcactttag tttgtacaat gtttaatat 60

ggcgtgttca ggtttaggcc cgtcggaatc aaatgcacaa ctgcaggtat agccagataa 120

gataatcggg ggagctcaat gcaagctcgg gattggacga ttgtagacat cactaacaac 180

atcagaggag cgagcttgcg gtcaaaaaca cagatgggca acaacaacaa tgaacacgaa 240

acgaaacaaa cggacacgag acgaccacag acgaagataa accccctcta gactaggggtg 300  
aacacggtag cagaagcgaa caagataact aggcctcagc ggaccccacc gtcagttcc 360  
tccagttccc gtcgttggtg ccgtagccgc cgaocggggtt tccaccaccg tatcccg 418

<210> 29584  
<211> 63  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-B8

<400> 29584

cccacgcgta cggtcacaaa aaaaaaaaaa acaaaaaaaaaa aaaaaaaaag tcagccgggg 60  
tta 63

<210> 29585  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C1

<400> 29585

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aggccaggga gttaaaaaaaa gctgctgaag ccctacacca agaagaaaga agtgggaaca 120  
agggccgaaa atggcgcaaa aatgtgaagg ctttagaaaa ggagttatta ctcttgggaag 180  
atgacatgaa ggctctagaa gagatgtatc ctcaaggaga acaggctgag gctacttggg 240  
cattcacagt tcttgggtac atcgggaaac ttctatttgg tgttgctggg ttaataggtt 300  
caatagcttg ggttgcacat attgtcatat acttggtgat agatcctcct gtatctcatg 360  
tcctgaatga agtcttcata aaattggatg gtgtttgggg tctgcttggg actgc 415

<210> 29586  
<211> 407  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A3

<400> 29586

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gtgtgatgtt tacaccaata taattgaata aacaggggat gtgcgcgtcg ttgtacttat 180  
gctgatgctg aggtcgtggt cgatatatat actgaacttt tggatgatgc tcttcttttc 240  
tggggagacc taatggaacg aaaaaaatg tgtcattggg gcctgtggtg caaacctgc 300  
tgtgtatggg cctgtctata agaaacagcg attagctgtg acgttatgtt tctgacagtt 360  
tatttactaa tgagcacatc ttttaatttac taaaaaaaa ataaaaa 407

<210> 29587

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H1

<400> 29587

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gcacgaaccc atggectccg gcgagcttgc ctgcacctac gccgctctca tcctcagcga 120  
cgatggcatc gccatcacgc ccgagaagat cgccacgata gtgaaggcgg ccaacatcaa 180  
ggtcgagtc tactggccgg cctcttctgc caagctcttg gagaagcgca acgtcgagga 240  
cctcatcctc tccgttggat ctggtggcgg agctgctcca gttgctgctg ccgcacctgc 300  
tggatggtgct gcggctgctg ctgccccggc tgtcgaggag aagaaggaag aggccaaagga 360  
ggagtctgat gaccgacatg ggcttcagcc tggtcgac 398

<210> 29588

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H10

<400> 29588

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caaggttcca agtcagcaca aacatcaagc aaggcccctg caattacagc gccaaaacct 120  
acagcatacc gccacctca tgctaagggt tctgcagaac ttcaggacaa gctcttttgt 180

ggactagctc ctgctggggg ggagatgagc aaaaatgcat tgcgaaacaa gaagcgcaga 240  
 gagaaacaga aggaaaagaa agctgctgaa gcgtcaggct ctctgctga tgaaagttga 300  
 tctgtgccgg attactttca gcattgccaa ccaccgagta taacagtgc aaatgatttc 360  
 tttcaatctg gtgaaacggc catgcaccga ttcacgttta caatatgaaa ctttttggtg 420  
 gtttg 425

<210> 29589  
 <211> 433  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-001-Q1-K1-H11  
 <400> 29589

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 actgttcgct ctcttgatc ctgtgcatgg tgctaaaaaa ctcgagcagc agaacttcct 120  
 acctgaggaa atcgacacgc ttgagcagaa cttcctgtcc tatttctttc gggatgatgga 180  
 aaagagcaat tttaacatag taaatgacga tgaggttgaa cttgctcatt ctggacaata 240  
 tctgttgaat cttccatta aagttgatga atcaaagtta gatgacaaac ttctgtcgaa 300  
 gtattttaag gagcaccgtc atgaaaacct gccgacttc tcagacaagt atgttatatt 360  
 tcgtaggggc attggattgg accgcactag caactttgtc ttcattggaga aagtggacat 420  
 gatcataact cgt 433

<210> 29590  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-001-Q1-K1-H2  
 <400> 29590

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 aggggggccc atggcgaggg ggtggccgca gtcgaggtct cgcaggttga tgggtgtcgg 120  
 acgaggtcca ggtccgaggc ggcaaccggt ggcgggtgtc ctaaagtcgc tccgcctgag 180  
 aggaagaagg cactgctggc cgctgtgaac gaaactgctt cagaggagcc tgggtgccgta 240



ggcgggtggtg gtggggactg ctgaagct

268

<210> 29591

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H3

<400> 29591

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gtgaaaaggt ttgggaaaag atagcaccag gtctggactc gcaatttgat gccccctatt 120

cacttccttt gcttgcacca cggccgctgc tacttctaaa tggcgtgaa gatcctcggt 180

gccaataag tggtttagga gaagctatct caaaaactgc taaagcttac gaagaatctg 240

gttgcgcgga gaagttcatg ttcattgcag agcctggagt cggccataaa atcacaatcg 300

acatggtgaa ggcagcaagc gaatggttcg atcgcttctc gcatgcatga atgcaaaagt 360

tattgtcgcc catcatttgt tctatatoga ttgtgatttg tcaacagcat ccagtatg 418

<210> 29592

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H4

<400> 29592

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agctgaagaa gtcgactggt tctcctacca ctgatctaga ccttcttgaa actattgctg 120

acaaggcctt gaaggaagac tcagttttcg ttgtgacatc aaagaaatca aatctggata 180

ggtgcaaact tcccattgga atccgcctgt ttgtatcagc tggccatact gaattagaca 240

tctccaggct ttcctcatcc ttgaagaggg tttctgcacg gggtctttca gattactttt 300

gatccacatc ggattccctt aagacgaaag ccattccattt tctacgcgct ttgtactcta 360

ggccgtgtgt gtttggtaaa tgtacataac ctgtacattt ctacatgtta tgaattgacc 420

tttgtgca 428

<210> 29593

<211> 410  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-H5  
  
 <400> 29593  
  
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 aatcttttcag caccaattac atcatagccc cggcctgagg tggcagtaaa atcccagtc 180  
 tactttttca cccattcagt aaaagcaatg gcagttacac aaacggctaa ggggatcact 240  
 tccaagcaga ttctgattgg tactattggT gaccaggttt tggcacttga taagcgctat 300  
 cttgatccac gccgttcagt gaacccgaca caacatgaaa aagaggacgg cattatacca 360  
 ttaacagatt ctttgcctat aatacctcag tcctttgtga cgcactctca 410

<210> 29594  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-H6  
  
 <400> 29594  
  
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 agcgaggtgc tggactccaa gatcatcatc gatcgggaga cgcataggtc ccgcggttc 240  
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 tgacagaa 308

<210> 29595  
 <211> 381  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-H7  
  
 <400> 29595

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 tcggcggcct cgcttggggc acggacgacc actccctcca caacgccttc agcacctacg 180  
 gcgaggtcct cgagtccaag attatcctcg atcgggagac gcagaggtcc cgcggttcg 240  
 gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300  
 aggagctgga cggccgcaac atcacgtca acgaggccca gtcccgccgc cgccttcgcc 360  
 ctccgaatcc caatggcgtc c 381

<210> 29596

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-001-Q1-K1-H8

<400> 29596

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 cgaacaagag cagtgtgtgt tcccggtcct ttccaatcag gatctggtga agtttttgcc 120  
 tttcatatcg aagaaattaa taattcatgt agagggagga ttcttccaac aatttgtttt 180  
 ggatggagac ttagatctcc aaacactcgt aactatccta ctaggtggtg acatcagtcc 240  
 ccaaaaacgt ttatggtcat agagtctgcc cttegtttgt cagtcgggca atttttcttg 300  
 catacaatgc cttegtttta gtatcggatg agttgctgcy actaanaaaa a 351

<210> 29597

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-H9

<400> 29597

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 gctgctgctc ccgaggagct cgccgaggac gagccggagg ctctgctcc tgcgtggtccc 180  
 caggagccgg ccgcccaggc ggaggctgct gctcctgagg agcccagaaa ggccagcgag 240

tgaggccgtg cgcacgcagc ggcggcggcc agggcccagg ggatcggcgt gcgcgcgtgg 300  
 cggggtagtc gctcgcgcgc gtacatggca gtatgacacg ggattttgct gttcagtacg 360  
 ctacggttac tggcgtctct ctctgtgtgt gtgtgtcgta cgtagcccg tacgtatcta 420  
 gc 422

<210> 29598  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-002-Q1-K1-A10  
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 cccacatgac caaggcccag gaagccggca agctgggtgg catcgacttc actgccgcct 180  
 ggtgcgggtcc atgccgcgcc atcgccccac tgttcgtcga acacgccaa aagttcactc 240  
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 tcgaggcgat gccgaccttc cacttcgtca agaacggcaa gacggtcgcg accatcgtgg 360  
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<210> 29599  
 <211> 409  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-002-Q1-K1-A12  
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 ctccccgccg cgcacccgct cgagcactcg tggaccttct ggttcgacaa cccgcacggc 240  
 aaaaacaaga tggccgcctg ggggagctcc atccgaccca tccacacctt ttccaccgta 300

gaagacttct ggggcctcta caataatata catcaccta gcaagttgat tggcggagct 360  
gacttccatt gcttcaagaa caagattgag ccaaaatggg aagacccta 409

<210> 29600  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A2

<400> 29600

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gtgcagttgt gtcgcgcgcg tggtgaaacc cctccacgcc ggtgttccat cccctgcgcg 180  
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gaccccgaaat cggggggaat tccacaccgt agtgcgagac atgagcagaa ctacctgtct 300  
ccgtggtcgg ctgcgttgcg caggcaattc ctaacgagcc agtgactgat gatccagggtg 360  
ttcagcaggt ataggttgct gagcatgagc tcattgaagg agaaagaaca tgtggcccag 420  
ga 422

<210> 29601  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G8

<400> 29601

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cgagaagaag gggctggaaa acctcaaggg cgagctcaag tcttccatcg acaagggtat 120  
caagtttgcc cacgggaact aggcaccttg cgtccttgcc cggcttctaa caattgatgc 180  
ccgcccttgc atttttgttt gactgcctat ttttcttgcc ccccgatatg ttggggcaat 240  
gagggcgtagt ggtcgataat aaaaccacgc ggaacataga aaacgtgtac cagaaactgt 300  
ttgcaaacac cgggtgcctct ttttgtgttg aaccaccatt agttgagccg tgagggaatg 360  
gtgaacaagc tttccaaagg ataaaaa 387

<210> 29602  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F11

<400> 29602

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aaaaataaat ttacctatgt tttacttcgt aaattaatta tatatgtgca ttactaataa 180  
catgcgaccc ctattatcaa gttcctattt tattatcact attcttgcgcat tgcattagtt 240  
ttcatattga tcgcacactc aagcttttca tgatctaggt tcttaaattc tactctcgct 300  
ctatcatcgc cttaacctca catagatcat aactttgtct ttactcattc acctatcttt 360  
aacactttcta taat 374

<210> 29603  
<211> 174  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F2

<400> 29603

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gagagccata gtccgggtcgg gatttgtacc cacctagctg aacctgaacc ttgaagtttg 120  
gtgcaattgc aatcgatttt gtaccactct tttaaaaagg gtatcgggtca atgc 174

<210> 29604  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F4

<400> 29604

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ggtaggttagag gcggtggcga tggagtcgca gaccatccgc cacatgatcg aggatgactg 180  
 cgccgacaac ggcattccctc ttcctaacgt taactccaag atcctatcca aggtaatcga 240  
 gtactgcaac aagcacgtac atgcgggcgc cgtcgccgcc gtcgtctcga aggccgggttc 300  
 cgacgacgtg ggtgccgtct tcggcaacag caccgtcggc tccggtgagg accttaagaa 360  
 ctgtgatgcg gact 374

<210> 29605  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-001-Q1-K1-F5  
 <400> 29605

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 aaataaatat tagatgaaaa aattaaataa ataagaaaat ttaaatgcta aaaaatggag 120  
 gatatgttta taggttccac atttaccaa gtatgctttg gaagtgtatt tcattcatgt 180  
 tgcattgttaa attatacaca atgctatctt gtttaataca ttctgacttg aaaatcctta 240  
 ttgtgaatta tttaattgtg cttactgcat tttctatctt agacagttaa gcaagataag 300  
 aatagtatct cgagaatatg acattatatg aatttagcat gatcattgca ttaagggatc 360  
 gctct 365

<210> 29606  
 <211> 288  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-001-Q1-K1-F6  
 <400> 29606

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 ctaacctcaa agatgatgct tgaaggatca aaccgaacgt atccattcaa ggcaccgtga 120  
 ctctggcttg gatgttgctg gactatcagc agatggcatc aaattgctca aggaccagat 180  
 cacaagctga cattgattaa tagggtaatg gtgaacccat ttctgtgaag tactaggctt 240  
 atcgacttac acggtatact catttttaca ctgctgtact ggtggatc 288

<210> 29607  
<211> 304  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F7

<400> 29607

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gttctctttc cttggtttta aacgattttt ctttctcttt tcgttgcata aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaaa 180  
aaaaaaaaaa aacaaaaaaa aaaagaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240  
aaaaaacaaa aaaaaaaaaa aaaagcagct gagctctcaa aaatccgagt ttaaaaaccc 300  
ttgg 304

<210> 29608  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F8

<400> 29608

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caaggcgtc agcgtcagcc tcgtgctccc cgtcgccatc tcgggtgctcg ttaacgagtg 180  
cggcaagcac gtgcccttca gttccagtg cccgtaatct atagtacaac aattaagccc 240  
atactgatca tcggctgcat atatgtgcta gctactatga agtatcacca ccaactaatct 300  
atatccgcat gcatgcatca gtgcatgggt gattaagggt ttatacgctg tcaaagttat 360  
acacgcatac ttatatcaca catatatata gcttatatta aggtagcttt 420  
a 421

<210> 29609  
<211> 432  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3067-001-Q1-K1-F9

<400> 29609

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gctctgccaa gctacatggc tgctacacaa tcagcaaagg cgaaactgcg gggaaatagc 120
tcacaaaaac ttagctctga ttcagcagag aaaaacggct tcaactcgctg tcaactccctt 180
ccatcctcta acaacggtaa gatggtttca cattctccac gtacacaaag gccagctaata 240
gctggttgca aggatggagc gaaaggtgac aaggctatgc tgtcatcaag agatgcaagc 300
gagagaccac tgaaagctga gtggagacgt tgacgcgggc aatcaaatec aaatcctgca 360
tttgattagc gtgaccgttt gggaggatgg atcgcccttg cagaatgctc ggatttggtt 420
tgcttgggat gt 432
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<210> 29610

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G1

<400> 29610

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ggtttttaaa aacctttggt ttaaacaata ttactatctc ttttcatagc ataaaaaaaa 120
aaaaaaaaata aaaaaataaa acaataaaaa taaaaaatte aaataaacac atcaatataa 180
taaataataa aaaacaaaat aaaccttaaa cataatcaaa a 221
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<210> 29611

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G10

<400> 29611

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gggaggtctc cgtcgactca gcgggaaact cgttactcaa acagtaggac tttcagggga 120
gacgcctggc gaaaagcatg cgtaagatca acgtcgcata gcgactacag gacgtctaga 180
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tcaa atgcct acccagacgg gacactgagc ttcagaatga ccacatgaac ctcaggacca 240  
agattgacga gggagagcaa cagctgcagc aagtgactgt ggcccagtct gtcgcagcag 300  
cagctgccat ccacgtggag ctgaatccgt tcttgagat ggatacaaaa tgcttcttcc 360  
ctggcggtcc cttcgcgaca ctggacatga agtgcttctt ccccggcagc ttgcagatgc 420  
tggaggcaca gtagcgccag atgct 445

<210> 29612  
<211> 261  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-001-Q1-K1-G11  
<400> 29612

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ctctgatgtg cagtcggggg gccattagcc tttagataag actcactgga cttcgtaaaa 120  
ggctactgat atcttttaaat aattctgttt ttctctcagg tttttaaact ttgaaacaca 180  
aatatgcact tatactgcac ctactatata aacacacca tatcttaact aggtcactat 240  
tactagaact gttgaaactg g 261

<210> 29613  
<211> 374  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-001-Q1-K1-G2  
<400> 29613

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gtttgacggg tcaacaaaga agctcagtga gttggaaaaa aataagttag acctggagag 120  
catattgaaa gaactgaata acaccatttt aggtttgaac tcggagaagg atgcaacact 180  
ccttcagcaa cagcagtctt tacagaaagt atctgatttg gagttagaac tctcaaagat 240  
gcagttggaa atggaggggtc cttgaagaca nctgtttgtg agcttgaaga aggatgggtg 300  
agncgccata cagaaacana accagtcctt tgaggtgctt aatacagaaa cttggtgagg 360

agataaatac attc

374

<210> 29614

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G3

<400> 29614

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tgtttcttga aggggaccgt atacgctatc tatcagaaga tgataaaact aagttgtgtc 120

gtgggtctac agataagatt actgcaattt actatgactt ggtctctgaa gttgtcactg 180

tggcaaggaa aaccgagtct tcggtgcaaa gactgcgcca aggtgcacaa aggcgagtag 240

gagctagtag agatgcctca gataacatca tatctgatac agacaagatc tgtatgcagc 300

tatttcttga ttttcaggag tacgcacgaa accttcgtgc gataggaata gacgcgagag 360

agattgattc ctacagagct ctatggcagt gtggtgcccc aaaagacaaa catgagaa 418

<210> 29615

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G4

<400> 29615

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gaggatgcat attaaatagg acgcgtatac aaatatatat ctaaatatga taataactaa 120

gtagtatctt atttatacac ataagattac tggagtgtat tatgacttga aatttgaagt 180

taatactggt tcattga 197

<210> 29616

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G5

<400> 29616

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 gagcgggagg gagcgagcca tggtagtcag cacgttcaat ggaccggga ttgggatcgg 180  
 gtctgggtgc ggctgcgggt tcggcgctcg gtgggggttc ggaggaatgc ctcttaacat 240  
 gtctggcttg ggtatcgggt ggggttgtgg atttggtctt ggactaggat ggggcttttg 300  
 aaatgctttt ggttgtcagt atcgatcttc aagagttcag ttccaaggca ttgaatttca 360  
 gaagaaggcg aattgagatg atgcacccaaa agttgtatca ccggagcttt gctcaa 416

<210> 29617

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F10

<400> 29617

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 agaagttgag gagtgatcgc ttggtagatt tgattgatat gtgcattact agtgacagtc 180  
 aggcacagga gcaagaagca attcagatga tgaagctcgc aatgtggtgt ttgcagattg 240  
 attgcaaacy aaggcccaaa atgtccgagg tcgtaaaagt cttggaaggc tctatcagtg 300  
 tcgaaactga catagatcat aactttgtcg tgacaaatcc accaagcttt agcgctccta 360  
 gaattgtggt catgtcagct ccacctctag cttcagaagt gtcaggcca aggtgaaatt 420  
 cct 423

<210> 29618

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G6

<400> 29618

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ttggtggact gcagtcaata agagtggatt caatagagaa gcttcaggcc gaagtaccct 180  
 caatggcagc tgacctaaag gatgaccaga agttccatga aatatacaac tttgcatttg 240  
 cctgggcaag ggagaagggc cagaaatctc tcgcattgga gactgctatt ggcatgtggc 300  
 agttgctatt tgctgaaagg agctggcctc tcattgacta ctggtgcaa tttctacagg 360  
 t 361

<210> 29619  
 <211> 264  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G7

<400> 29619

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 agctagctag cagtcgtaga atgacgatga ggggtctctc tgttgcggtc gctctggctg 120  
 tgggtggtggc cgcggcctgc cttgccgcgc cgcggggcgc ggacggcgcg gacgagtgcg 180  
 gatgcgacgc ctgcggacac tgaggcgctg aggctggcgc cgtgcgcgtc ggcagctgag 240  
 gaccccggt gctctccggc cgga 264

<210> 29620  
 <211> 229  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D4

<400> 29620

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 ccggcaccgc ttcaccgtct ccatccgcga cggtaaccgc gacatgtctg cttcaagcg 180  
 cttgctgagc caggactatc tggttgga aa gggatttggg gcattcata 229

<210> 29621  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D5

<400> 29621

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cctgcgcgcc gtctgccgcc gtcctcggc ctccgcccc ggctcgtgg acgtcaagg 180  
cggcgggtctg ggtctcggcg cgcgcggcgg agaccaggtc gtgcacctgg cggccctggc 240  
tgatgaggcc aggagcctgc acgccatccg cgcgcgcgtt gatgacctct aggaccagtt 300  
cgagtgtctt ctgcgcgcgc agacacagca tcaggaccga acgagatttc gcgattgcca 360  
gtcttgatca aagtcgcac atgctcgcga taaggctcaa agagcatcac gggagaaacc 420  
ac 422

<210> 29622

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D6

<400> 29622

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tcatgataca agagttcagt tagacatgtc aatctgcaag tactgaggca atgatatgg 120  
tcaataaaaa aaaagaaaa aaaaaaagg gctaaaaata aaaaaatcca aacttaaaga 180  
acatatataa caaataaata aacttataaa taagatgaca gttattttta atagagttgg 240  
ccttgttttt taactattta 260

<210> 29623

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D7

<400> 29623

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aaaaaaaaaa aaaagaaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaa aaatgaaat 120

actaaaataa aaaaaaaaaa taaaaaaaaa aaggccttaa tttttataga ttcaaacttt 180  
aattacacat aaattaaaat ttttaacatt ttattataat acatttaaatt aaaataaatt 240  
gcccttggtt taaaaatttt tattattgta aaaacctttt tattatcaaa attatttcat 300  
ttgaataata tacatttttt t 321

<210> 29624

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D8

<400> 29624

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gtcacagacg agtcattctt caataacata agaaattgga tcagaaacat tgagcaacat 180  
gcttcggata acgtgaacaa aattctggtg gggaataaag ctgatatgga tgaaagcaaa 240  
cgggctgtgc ccacttcgaa ggggcaagct ctcgctgacg aatacgggat aaagtttttt 300  
gaaacgagtg caaaaacaaa cctgaatgtc gagcagggtt tcttttccat agcaagggac 360  
atcaaacaga gactttcgga aaccgattcc aagcctgagg atcgaacttt tcagatc 417

<210> 29625

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D9

<400> 29625

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gcgactaatg ggtcgactac accttcaaca actaacgtga cgttggtcaca ttgaagatca 180  
tactgtatcg tcagacacga actgtccgag gcttcgactt catcacctta ttgaccaacg 240  
acgacatacg caatgccatc gaaggcatga acggcataga gcttgacggg cgtatcataa 300  
acgctaacca ggtccaattc ctcagagggc gt 332

<210> 29626  
 <211> 69  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-E1  
  
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 agggggggat 69

<210> 29627  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-E10  
  
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 cagaggaaca ggacagatat ttggaagggt ggaactggta cgctgaaagt gaagaacgtt 180  
 aaaaatgggtg ccgtcccatc taaagaccga gttgcaaagt ctgaccctta gcgccgcagc 240  
 aattgaagga gatgtttggt ttgaataatc aatctatatt agatgaggtg atgtatcata 300  
 agttcattcc acaaatttgg tggaataaat ttattcctca tattatgact aattattaac 360  
 ctatgaggaa taaaatcatg gtggatcaac ctattctatt atctaaacca aaagt 415

<210> 29628  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-E12  
  
 <400> 29628  
  
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 cttatcagaa tctgtggatc aagctaataa aatcacaaag gcacttccta cgagtcagaa 180



caatactgca ccagtaattg ctcaagcaga ttgtggagta gagatcagct ctggtgtcat 240  
catgcacgtt gctgtgtctg cttcatgcaa tggaactaca gagaaaaagg tgaattcgaa 300  
gtcaaagaag tttgtgaggt atcctgttgt gaacatgtgg ttaggggtcca gacatctaaa 360  
gccaggggaag aaagcgaacc gcatgagaag taaaatgata agacgtgttg tagcctgc 418

<210> 29629

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E3

<400> 29629

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actactagcc atatatgata tgcataatcc gagtggtgaa cattatcaat atcccgcaaa 120  
tgattttctaa gctccggcgg agaagaagcc caaggccgag aagcgcctac cggcgggcaa 180  
gtccgacagg taaggagggc ggcgagggca agaaggggaa aaagaaagcg aagaagtccg 240  
tgagagaccta caagatctac atcttcaagg tgctgaagca ggtgcacccc gacatcggca 300  
tctcgtccaa ggccatgtcc atcatgaact tcttcatcaa cgacatcttt tagaagctcg 360  
cggtcgaatc ccccgagctg gcgcgctata acaagaagcc caacggcacc ttctgcgaga 420  
tcc 423

<210> 29630

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E4

<400> 29630

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cggcgaccac cactcagtgc ttattcctcg gcgaggtcct tcttgacca tccgccgaca 180  
agggcgccgc ggctgttgca gcagcctttc tctttggcga cgccctttcc ggcgcccat 240  
cagcgggttc agaagccttc ctcttttgcg aagccctcgg cacggtagcc ttcctttttg 300

ttgacgtcg

309

<210> 29631  
<211> 370  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-001-Q1-K1-E5  
  
<400> 29631

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cgcacgcgtt cgaaaaaaaa taaaaataaa aatgaaaaaa aaaaaaagag aaagaaaaaag 120  
aaaaaaaaaa aatatgaaaa taaagacaaa agaaataaca aaagcactta aatacgagtc 180  
agaacaatac tgaaccagta attgctcaag cagattgagg agtagagatc agctatggtg 240  
tcatcatgca cgttgctgtg tctgcttcat gcaatggaac tacagagaaa aaggtgaatt 300  
cgaagttaaa gaagtttgtg aggtatcctg ttgtgaacat gtggttaggg ttcagacatt 360  
taaagctagg 370

<210> 29632  
<211> 377  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-001-Q1-K1-E6  
  
<400> 29632

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tcaggactcc acgatcgcca agaaacagat caggaactag agcagcacat acggcgacca 120  
ccactcagtg cttattcctc ggcgaggtec tccttgaccc agccgcccac aagggcgccg 180  
cggctgttgc agcagccttc ctctttggcg acgccctcgc cggcgcccca gcagcgggta 240  
cagaagcctt cctctttggc gaagccctcg gcacggtagc cttcctcttt gttgacgtcg 300  
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ccgcggcgat gcggtcg 377

<210> 29633  
<211> 392  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E7

<400> 29633

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gaaggctccg gcggggaaga agcccaaggc cgagaagcgc ctcccggcgg gcaagtccga   180
cggtaaggag ggcggcgagg gcaagaaggg gaaaaagaaa gcgaagaagt ccgggggagac   240
ctacttgatc tacagcttca aggtgctgca gtatgtgcac ccctacatcg ggatatcgtc   300
caaggccatg tgcattatga actcctgctc atcgactgtc tcctagaagc tcgcgtcctt   360
atccgtcaag ctggcgcgct atatcaagaa gc                                   392

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<210> 29634

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D3

<400> 29634

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tcttataccg ttcaccgttt gcatacatc cgcagccggc gacgtgtgag ccttgaagtt   180
cttgggtgtc cagcactgtg ttgttgtag agactttggg gcgttaatag cgagtgcgca   240
tactctcata ctcttttcgg gatttcggct ccttcatggc aatcatgctt gacacactgt   300
cgtctatgaa caataatgac tgttgcata aaagctatgg tgc                                   343

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<210> 29635

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E8

<400> 29635

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tgaagacaaa agtcgtgggc tcaataatcc tgggtgtcgaa aacagggctg tcaaggagca 120  
gatgggttga gcctgtaaga atgct 145

<210> 29636  
<211> 422  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E9

<400> 29636

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tcggcgctcc cgttcccca cctctcgtct gctgcctgcc tgcttgcaaa aaggagtttg 120  
tcatggcgtc taagcgcctc ctcaaggagc tgaaggacct gcagaaagac cccccacat 180  
catgcagtgc aggtcctgct ggtgaggaca tgtttcattg gcaagcaaca attatgggac 240  
cacctgacag tccctatgct ggtggtgttt tcttagtgaa cattcatttc ccgccagatt 300  
acccttcaa acctccaaag gtttctttca agacaaaggt cttccatcct aatatcaaca 360  
gcaatggaag tatatgcctt gacattctca aagagcagtg gaaccctgct ttgacaattt 420  
ct 422

<210> 29637  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F1

<400> 29637

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aaatctagct cttacatgat ttattacctg catttggtct ttacatgcta cagtctagag 120  
tatatggttt ttgtagggca tgggccagag tagttgctgg aggtgtttcc catgcacgtt 180  
ccatgttcaa ttatacacia tcctatcttg cacaatccat tcccacatca gcatgggcat 240  
tccgcattat ttccttgctc aaactgcatt ctctattgca gacaatgaag caagagaagt 300  
ttcttatttc gagaatatca caatatctgc atttagcatg agcataacat tagcaatcgc 360  
tctttctttt cgatggatct cctatggaaa aaaagaagag ca 402

<210> 29638  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B9

<400> 29638

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ccctttcttct ccccgctctc cgccccgacg ctcaacgatt tcgctggcag cgagtacgcc   180
ctcgtcaccg agcgcgaggaga ttcgctctcc aggcctcgtcg gcgtcgtgt gcgggccgat   240
gctgcctccc gcgaggttcc cgtctctgtc tcggagtaca tgcgaccgac gccgcgtca   300
gcctccgccc ctttcgactt tgaggaagca gcaaccttcc ttgccgatga gggctctggat   360
tacgccccctc tcgtatcaga tgatgggtgag gttgttgatc taatcacc           408
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<210> 29639  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C1

<400> 29639

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cctgggctac aagaccgtcc tcaagacgct ggcgaactcc aagggaaagc tgatcatcat   120
cgcaaacaac tgccctccac ttaggaagtc tgagattgag tactacgcca tgctggccaa   180
agttagcgtg caccatttcc acggaaacaa tgttgatctt ggcaactgcct gcggcaagta   240
ctacaggggtg tgctgcctca gtatcatcga cccaggtgac tcggacatca tcagtaccac   300
ccctggcacc cagtgaacca gcccggcac ccattgcagc tgcttcgggt ttctcaaaat   360
gagatgagat gtaacgctcc ggccctatgt ccgtttcctt ttttatcttt tagctatgta   420
at                                                                 422
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<210> 29640  
 <211> 380  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C10

<400> 29640

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gagggagtc tttgtatttca tggagacctc tgcactcgag tcgactaacg ttgaaaatgc  120
attcgcagag gtctgaactc agatctaccg cattgtgagc aagagagcag ttgaagctgg  180
cgaagattca gcatctgggc ctggcaaggg cggaagatt aacatacagg atgatgtttc  240
ggcgggtgaag aatgggtggct gctgctgtag ctgacctgcc ctgatgtatt tattgagcag  300
ctgtgggtgat gtatcttatg gtacggcata tccagcgacc gagaactggg actggcatta  360
gcagctttcta tgatacctag                                     380

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<210> 29641

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C11

<400> 29641

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cgccgccaac atccccggca agtgcggcgt ctccgtcggc gtgcccata gccccaccgt  120
cgactgcacc aagatcaact gatcgatgga accatagtgg aggtagctcg ctcggttgat  180
ggcagcgtag gtggccatca gcagcatgca gtcgtcgtcg tagcagagat gtcctagcta  240
cgtgtgtgtc atgcatcaga ctggcacata ataaagaagt agatcatgca cccactagtg  300
atcacttcgt ctagtgtccc tccgttcaat gtcgtcgtcg tcgtcgtgta ccttacgtga  360
catgctgtaa cacgtacgct agcaaagcag                                     390

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<210> 29642

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-001-Q1-K1-C12

<400> 29642

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 cccacaggcc tgccgccaca gcaccgcgga tagcagagca gagcggcagc caggtcggtc 120  
 gtcgtcgtcg tcgtcagcca tgagcaagga caagcaccac aagcacgagc accacctgcg 180  
 gcgttgctgc ggggtgcatgg cgctcgtgctt cctggcgctg gtctctcatcg tggccttcgt 240  
 ctcgctgggtg gtgtacctgg cgctgcgccc ctggaagccg tccttctacc tgcaggacct 300  
 gcagctgcgc agggccatct cgctgggcga cccgtcgtcg acggcgtcgg cgcaggtgac 360  
 gctnnggccgc cgcaacccca acgaccgctt gggcatcttc tacaagcgcc tggacgtgtt 420  
 c 421

<210> 29643  
 <211> 98  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-001-Q1-K1-C2  
 <400> 29643

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 ggaggaagaa aaggcaaaaa gagagaaaga gcgtgagg 98

<210> 29644  
 <211> 76  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-001-Q1-K1-C3  
 <400> 29644

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 tgtggagaaa cttact 76

<210> 29645  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-001-Q1-K1-C5  
 <400> 29645

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 gagagaacaa ggaagaaagt tcatgtgttg cgtgggtgcg ggagagacga gcttctacag 120  
 atcatggact actcctccct cccccatttc tgcagacagg agggctcggg ctcatccaaa 180  
 cattcgtcag gcgacgccga taactgcttc tctctcgacc acccgttcca ccaggagctc 240  
 tacagcttca tccaggagca ggcgctgaac caggagctca tcaagcaggg ctcccttgac 300  
 gtgaaaatcc ccgagcagga ccctgaggac gcaaagatcg tggaggatcat cgaggccgag 360  
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 tgtct 425

<210> 29646  
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 <212> DNA  
 <213> Zea mays  
  
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 <400> 29646

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 caatcaaaaa ggaggttgaa gatcttgagg ctgatggtat tcaggtgatc caaatcgatg 120  
 aggcagctct aatggagggg ctggcactac gcaagtcaca tcatgcattc tacctggact 180  
 gtactgtcca ctctttcaag atcaccaact gccgatttcc agacaccaca cagatccaca 240  
 cccacatgtg ctactccaac ttcaacgaca tcatacactc catcatcgac atggatgccg 300  
 atctgatcac tatcgagaac tcccgggtctg acaagaagct actgtccgac ttccgtaatg 360  
 gtacgaagta cggagctgac attgaacctg gtgtctacta catccaatct c 411

<210> 29647  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-C7  
 <400> 29647

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 tcatgataca agagttcagt tagacatgtc aatctgcaag tactgaggca atgatatggg 120



tcaatagaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaacatacta tataaaacaa 180  
acaattaaga aagaagaatg atataaatac aataaaataa aaacaaaact aacaacagga 240  
gatccaaata ctgcattgac aggtcataga tatgttcagc taacattact agtcatcat 300  
ttggaccttc taaataagtt caccttacat caaatgg 337

<210> 29648

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C8

<400> 29648

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aaaattgtgt ctgatttcat tcttatgcat gccattgcgt tacctactct ataacacagg 180  
taatttgatg gatgaatggt cttgttttct ttcattcttg cagaactcac aacagggatc 240  
caaatttggt aagacagggt tagatagttc agctaacatt gggagctcat caattgcacc 300  
taccaagacg ttcaccctgg atcaaatgta atgacctagg cagaagaacc gggtatgcct 360  
tgacatcggt ctatatccag taagatgcta 390

<210> 29649

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C9

<400> 29649

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cagacgggat ctgcgaatgt ggggtgggaag tgtagcatga tcatctaaaa tattcaggtt 120  
caattggctg cttctttgaa atcacattgg ctatacggag atgcataccc cagtatgggc 180  
tcaagtataa cttacatgtc tgacatcgca cagccttctc ggaatatcaa agtcgtcgcc 240  
tgatcctatt cagccaata aacagtgggc aagaactctg ttgattgaaa tccattcatt 300  
tatacctact actgcctata gtctggcgat tgatcaagta ttcgatattc gttattttca 360

tccataccgt gactaccgtt gtaag 385

<210> 29650

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D1

<400> 29650

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agtcttagac gcctaatecg tagtttacat cccgaagggc ggcaaggggtg atccaggccg 180  
accatgggtt acgtcgagag aagtgttggtg aaagacaagc ggactatatg gcgactgggc 240  
ataatctcag acttcttttg ggctattgtc aacttcatca gaatcttctt tgacacactg 300  
ttctcagtgg acaaaactga cagctacaac aaaaggtatg gggctgggtga gaagtgggat 360  
gggtggacctc gtgggtgggtg tgggcggg 388

<210> 29651

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-D10

<400> 29651

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gcatggctgt tttccgacac ctttaagagct tgtttgggtg cttaccgtca gactatagtg 120  
ctgcagaaac aactatcgtt cttgccaagg ctgtttcttc ttgtgtgcgc catatggaac 180  
tcagtgtctc cagtgcctgt ctagcagctg ttgtctgttc ttgcgagcag ctacctcttc 240  
agccactcgg tactgcctct ggtgatggag tgtctcagat agttaaatct gtgctggata 300  
gagcgaccga gctactggcg gatccctatt ctgcagccaa ctacagtaga tcaacactgt 360  
cgcttttgca tgcgtc 376

<210> 29652

<211> 433

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-D11  
  
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 gcatcaccat caagccccag actgaccgct ggggtgttccc cgagaccaac actggcatca 180  
 ttgtccttgc tgagggtcgc ctgatgaacc ttgggtgtgc tactggccat cctagctttg 240  
 tcatgtcctg ctcatcact aaccagggtca ttgcccaact tgaactgtgg aaggagaaga 300  
 gctctggcaa gtatgagaag aagggttatg tgctcccaa gcaccttgat gagaaggttg 360  
 ctgctctcca cttgggcaag cttggtgcca agctgaccaa gtcaccaag tctcaggccg 420  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-B8  
  
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 gcatgaactc gccgaggaag acggtgttgt acgcaacgga ggcgacgtgg acggtgtgcg 180  
 atgccgggtc gcgcgggtag aagtcgtcgg aggcgcgcac gacggcggtc tgcctggcgc 240  
 tgtacagcat gtcggagttg tggcacatgc aggagatgca gccgttgtcc gggaagctgc 300  
 gcgccacgga ggcttcgagc gcgcggtggt aggcgcgggt gatggcgac 349

<210> 29654  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-D12  
  
 <400> 29654

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 ttgtcttaat aaactttatt tgactttgac tatgtaccgt tttcttaagt ttggatatta 240  
 tagatttggc acgtactgat cttacattag accaattatc tgggtcttaca tgctaattggg 300  
 acccgccatt gtactgctct ttaatcgcca tgggtctgaa tgttacgcgc aacgtgatct 360  
 caacacttat tagttgccat ctgcctgcta tatatggg 398

<210> 29655  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-001-Q1-K1-A1  
 <400> 29655

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 ttctcctgga cattctgatg taccatctat tgctgctggt gttagttctc gtgaatggcc 180  
 tcttatctcg aaatacagag cttctgtccg cacccaatca cctaaaatgg aaatgattga 240  
 ctcatgtttt aagccacggg aagctgaaga tgatgggtctg atccgggagt gtttgattga 300  
 cttctacacc agttctggga agagaaagcc tgaccaagtc atcatatttc agggacggtg 360  
 ttagcgaaag tcatttaatc aggtgcttta cattgagttg caac 404

<210> 29656  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-001-Q1-K1-A11  
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 agattcaaaa aggcagtttc aggtcgattt tgggaggatt tgggtgctagt ggtagtaggc 180

gaccagcttg agtatagcga tgatgtctgt ggtgttgtgc ttagtgtccg tttcaatgaa 240  
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gattctatca agaggcacct caagctgccg cacagctatc tgatggagta caaaccccat 360  
gatgcttcgc ggcgtgacaa ctctcctac aggaacacat ggctgagagg atagataaac 420  
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<210> 29657

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A2

<400> 29657

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ttcatcttca aatggaagta ccacatcggt ctctcgcaca ttctcatgta caatgtatag 180  
cacttgctgc aaaacgtctt caatacctat cttatagtgg caatacagac ctactatcct 240  
cacccaatca actcaaattg acatgatcta ctgattgggt aagctatgca cagctgaagc 300  
taatcgtaac gatcctcgag ggcataacg acttgta 337

<210> 29658

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A3

<400> 29658

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cctccccgag ctccgggacg gcatcacggc cgccaagagc acggtgtaca cgccggcgcc 180  
gtcgacggcc ggcgcggagg cgtgggtgtg gcgcctggcc aaggcctacg tgaacgtgaa 240  
cgactactgc tggcaccagg gcatcagcca ctggctcaac acgcacgcgg tgatggagcc 300  
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<210> 29659  
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 <212> DNA  
 <213> Zea mays  
  
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 caggcccgctg acggttgctc tgcgcgagat ccggatgtac cagtatagct cggatctgct 180  
 gattcggatg ttttacttca tgctttttgt tcgtaagatt tctcttgact tgtagtcggt 240  
 tg 242

<210> 29660  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-A5  
  
 <400> 29660  
  
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 ttctcctgga cattctgatg taccatctat tgctgctgat gttagttctc gcgaatggcc 180  
 tcttatctcg aaatacacag cttctgtccg cacccaatca cctaaaatgg aaatgattga 240  
 ctcatgtttt aagccacggg aagctgaaga tgatggctctg atccgcgagt gtttgattga 300  
 cttctacacc agttctggga agagaaagcc tgaccaagtc atcatattca gggacggtgt 360  
 tagcgaaagt cagtttaatc aggtgctgaa cattg 395

<210> 29661  
 <211> 417  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-001-Q1-K1-A6  
  
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cttgcacggg tcagcacctg ggctgggaac ctcaccctgc taggctctgc ggcgaatctg 180  
attgtctgcc agcaggccag gcgggcccag gtcttcggct acaacctcac cttctggagc 240  
cacctccgat tcgggggtccc gtagaccatc atcgtcacgg cgatcgggtt gctcatcgtc 300  
atcagttact gaaacagctg aaggcagaag agcgtactgt aagagaagca gaatggataa 360  
aaatccttcc aatacgaagt acatgtcaat taggcttgcc ctataactca agtgtgt 417

<210> 29662

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B10

<400> 29662

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tcttaaatta gctggcgaac aagaaaagct ggtgagtgaag agatggcttc cggagctgag 180  
aaatgcagtt caagaagctc ggaggtgttt tgatgactgc cagcgtgtta ggggcttggg 240  
tgatgagtgg tacgagcagc cagcagccac aattgtcgat tgggtaacga tagatggaca 300  
gagcgtgggt gcctggatca acctcgtgaa gcaactccac atggagatct ccagacggac 360  
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<210> 29663

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B12

<400> 29663

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gtcggctact acaggcagta ctgccgccag ctcggcgtcg acccggggcc caacctcacc 120

tgctaggcta gctaggcggc atcgggtggac ggcggggcct tcaggccttg tgctcggcgt 180  
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 cctgtatgtt cgacctgaat aatgaagcag ctgtgtgata tgcattgtgt ttcgacacaa 300  
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<210> 29664

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B2

<400> 29664

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 aaatgtccac tcttgagggt aaacatgaca tctacaaaaa cccctttgtt tgggttttctt 180  
 caaaatttgc actaggccaa catcatgagg ttttttattt tcagtatcct tattgtgcgg 240  
 atgcaccatt tttttgttat cacacctttc acaagctcgg caattgtctg aataatttct 300  
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<210> 29665

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B3

<400> 29665

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 atgatttcga ctttgtcact gcagaagatg tccagaagag caggatcttc tatatcctat 180  
 ggtccccatc ctccgccaag gtgaagagca agatgcttta tgcaagctca aacaaaaaat 240  
 tcaagagtgg gctcaatggc attcaagtgg aactgcaggc tactgatgca agtgaaatca 300



gccttgatga gatcaaggat cgggctcgtt aggcattcatg atcatgcatc atggactcgg 360  
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 attgcgg 427

<210> 29666  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-001-Q1-K1-B4  
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 cctgacggag ctcaccttc tgtgcaagtt cagcgtctct aacaatcact tgggtggggca 180  
 tatcccaatc ggagggcagt tcctgacgtt cttcaactcg agctttgagg gtaatcctgc 240  
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<210> 29667  
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 <223> Clone ID: LIB3067-001-Q1-K1-B5  
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<210> 29668  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
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gtatacagcc cagcagttga tagcaaaatc cgatcagtgg gcggtgaaaa gggttatattt 240  
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ctctttgatg acttgcacaa gacagggatc ttcacatggg attacttgca ccatctcggg 360  
tcagacaaat tcagtctgat gagaaattac atcagaactt tgagaaagca tgggtctta 418

<210> 29669

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-B7

<400> 29669

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ctatgattgc gactttgtca ctgcagaaga tgaccataac agcatgatct tgtatctcct 180  
atgggtcccca ttcttcgcca atgttaagag caagaatctt tattcaagct caaaccaata 240  
attccagaat gtgctcaaat ggcattcatg tagaacttca tgctactgat gcatgtgaaa 300  
tcagtct 307

<210> 29670

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H12

<400> 29670

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tgctgcaatg gccaatgctt atgttgaaaa acgagcctta gcttgacact gggaagctat 180  
cgagaaccag actccgatgt cggccttaga accctatgag tctgtcccag aataggccga 240  
tgcttacgct gtatattagg ctggtgaaac tgctacatgc gaggatgtac cgggtcaaata 300

tcagtatggt cacgacgagc cggaagcc

328

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<212> DNA

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<400> 29671

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gaagaggaag aagatatcag atgaggaaga ccatccatgt gctattggag aagctgtaga 180  
ctaaactggc tgtgactggt atatactatt aaatagtgtc gatcacatta tagattcaaa 240  
cggacaacat atggaccacc tctacatgat agcacttggt aaaagagaca ctacgaacgt 300  
acgttaatcc aagatggaca ttagtgaaat tatatggcac agaattcatg acctottacc 360  
agctaataat gattcatcat ctagtgcagt gaatggaa 398

<210> 29672

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H4

<400> 29672

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gaacgaagat gttggcgggtg ttcagcgggc aggtggtgga ggtgccggcg gagctggtgg 180  
cggcgggcag ccggacgccg tcgcccaga cgaaggcgtc gcagctggtg gggcgcttcc 240  
tggccgcgtc cgagccggcc gtgtccgtgc agctcggcga ccacggccac ctgcctact 300  
cccacaccaa ccaggcgtc ctccgcccc ggtcggtcgc ggccaaggac gaggtgttct 360  
gcctgttcga ggggggtgctg gacaacctgg gtcgtctgag ccagcagcac gggctgtcaa 420  
gcaagggcgc c 431

<210> 29673  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-060-Q1-K1-H5  
  
 <400> 29673  
  
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 gtccgagatg ccgtttgaga aggaggagct gctcaacgca gccgtccgcc gcgtggacgc 180  
 gctggaagcc gagctgatct ccacgaagaa ggccctttac gatgctctga tgcgacagga 240  
 tgagctgctc gcgtacattg acaggcagga gctgatcaag ttccgtaaaa agaagttctg 300  
 cttctaagat ctgaccatgg agcagctggg catgtccgga gccgttcgtg tatattgttg 360  
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 ggtgtaagta tagta 435

<210> 29674  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-060-Q1-K1-H7  
  
 <400> 29674  
  
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 tggaaagagg aataaagatg aggaagacca cacatgtgct gttagagaag ttctagagga 180  
 aactgggtgt gatgtttcta gactattaaa tctggatgat tacattgaag tttcaattgg 240  
 acaacaaagg gttcggctct acatcataac aggggttaaa agagacactg tgtttgcacc 300  
 tcaaaccaag aaggaaatta gtgaaatttc atggcacaga attgatgacc tcttaccagc 360  
 tagtgatgat gcagtatctc gtgcagtga tggaaatgaag ctgtacatgg ttgcgccatt 420  
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<210> 29675  
 <211> 428

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-060-Q1-K1-H8  
  
 <400> 29675  
  
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 tcgtgaaact ggcctgtgat cacgcggagc gagctgtagg cgctaccag aggtgttggg 180  
 ggctattcta cgaactgggt caccgcatag cagagcatgg tgcttacgga cgacttcttc 240  
 ggcatacaga gctccgaact gctatcgaa tacgggttcc accaagagac tcagctgtca 300  
 gtcaactgag gctagcttgc tgcgtactag gcgaacccga tatatgtcaa tatgttcac 360  
 acggccgagc tgtttgttgg ctagcaggag agtctaagac agctcgctcg ctactgcagc 420  
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 <213> Zea mays  
  
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 tttggaagct gtttcagtgc tgccacaatt acgcttgatg cagaatacta agatagtga 180  
 accgtttaca gctcactatg tatctgcatt ggggggttga aggtttctta gctgcgcca 240  
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 gtggccgtct atggctgctg tttcagaaat cgtgcagaca ttcaccttg cagatttctg 360  
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<210> 29677  
 <211> 262  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-060-Q1-K1-F6

<400> 29677

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attagcgtgt ggatctgtca accccatggc gcctctgctt gattcgtgtt tcacctgtta 180

tgttctgaga ttcataataa tgctatgaga actgaaattc cgttttcatt cttcttaaat 240

ctttgacctc tgcggttgtg cc 262

<210> 29678

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-F7

<400> 29678

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tgctgttttag gcacttggtc ctcggctgca gtatgttgct gttaagggtg tgaaacttct 180

gttatcatta ctgaactggt ttataatgtg acgtcaattt act 223

<210> 29679

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-F9

<400> 29679

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caagctcgcc tgatggggag tgatagcaag ccacatgatt ggcgagacag attacaccat 120

cattgctgac cttacaattg gtcagtctac aggccaaatc atgacgggag ctccttgtct 180

ggctgagcgc ctggccttat acaatcagct gctcatgac gaggaagagc tatgcgttt 239

<210> 29680

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G1

<400> 29680

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acaaggacta cttcaacgcg ccgaactgct acccgcagaa tgacgctgac atcgtcaaga 180  
tgctcaaggg cccggtgttg gtcaacggca gttacatcgg gcgatactgc tcctacaagg 240  
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<210> 29681

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G10

<400> 29681

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tgtcgattcc tattegtcgt ctcttcaggg ctgggtgetca ctgctgcgcc gttctgttaa 180  
ccgaaacaag aactctgtgt attcctgtac cgagctgtgc atgttttttt ctttccatcg 240  
tggagaattt aagttattat ccgtttgctg c 271

<210> 29682

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G11

<400> 29682

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ggagggtgat ttggttgagc agcttgcgag gcatttctct aggcctctga ccaaggaaca 180  
aatggaggca attatggagc tggcaactca ggggaaggaa aaggaaggga tcaagaagaa 240  
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tcaattatga gatgtgtggg tagttctagt gcatcatgtt atgtccccg tgtacttgcc 360  
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 ggtg 424

<210> 29683  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-060-Q1-K1-G12  
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 agcgaggata cacgaacaat acctctgaga agagacgccc gacaccatca gcagcacgag 300  
 cacatgaata gagctggcac taacacattc acatgcattt ccagcttcat acgatgtttt 360  
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<210> 29684  
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 <212> DNA  
 <213> Zea mays  
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gtagtcaagt tcatgtgcta gcacattgtc aggttaaagt gtctcccgat tgtataccgt 420  
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<211> 209  
<212> DNA  
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<223> Clone ID: LIB3067-060-Q1-K1-G3

<400> 29685

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<210> 29686  
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<223> Clone ID: LIB3067-060-Q1-K1-G5

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aaaaaaaaaa aaaaaaaata aaaaaaatag gctttacctt ttaaaatata aaaacttact 180  
aaccccttct ttcaactttt taattttcat atagattcat ctaaatctaa tcaattgacc 240  
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<210> 29687  
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<212> DNA  
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<223> Clone ID: LIB3067-060-Q1-K1-G6

<400> 29687

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ttcaactgat gacatacata cttcgtcttc aaatcatacc tattatctgg ttctaaaccc 240  
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<210> 29688

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G8

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aggaaagaag cacagcaaca aatgttgaaa ttgaagtgcc tgttccttca gatgccacaa 360  
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<210> 29689

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G9

<400> 29689

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 tttgggagaa aggttcaacg ttttggtgca ggataaaatg ggcttgctat cctccagtgc 240  
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<210> 29690  
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 <212> DNA  
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<223> Clone ID: LIB3067-060-Q1-K1-F5

<400> 29690

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<223> Clone ID: LIB3067-060-Q1-K1-H1

<400> 29691

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 cacaccttgg gaaggtgcca caaagagcgg tctggttttg agggggcctg gactacgaac 240  
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<210> 29692  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-060-Q1-K1-H10  
 <400> 29692

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 gacatggtga gcaactggcg cggcctcacc accgcgagca ctacgcgcga cagagcacga 360  
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 tgcagcccc tgggtctgaa tgtagccac tttctctgg gctgcactgt tttctttag 300  
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393

<210> 29694

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D8

<400> 29694

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<210> 29695

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D9

<400> 29695

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gagatgtcgg acgaggagca ccagttcgag tccaaggccg acgccggcgc ctccaagacc 120

taccgcgagc aggccggcac catccgcaag aacgggtaca tcgtcatcaa gggacgtccc 180

tgcaagggtt ttgaggtgtc cacttccaag actgggaagc atgggcatgc caagtgccac 240

tttgttggca ttgacgtddd cactggaaag aagcttgagg atattgttcc tttttctcac 300

aactgtgatg ttcccatgt tgatcgcact gagtatcagc tgattgacat cactgaagat 360

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gatgaag 427

<210> 29696

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E10

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 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E11

<400> 29697

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 ttcgtgatct ttccaatctg gtaaaaccgg aggatatgat cacctcggaa catctcgtga 180  
 cacttcttgc aattgttccc aagtactccc aaaaagactg gttgtcaagc tatgagaaaa 240  
 ttgacacatt cgtgggtacct aggtcatcta aaaagctcta tgaagacaat gaatatgctc 300  
 tctacactgt aacactgttt gctaagggtg ttgacaattt taagggtccgt gctcgcgaga 360  
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 agatg 425

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 <212> DNA  
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<223> Clone ID: LIB3067-060-Q1-K1-E12

<400> 29698

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 tttcagggtt agtcagggtg caataagctg tgtcctttgg gagcacaggt ctgtacagga 240  
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<223> Clone ID: LIB3067-060-Q1-K1-E2

<400> 29699

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acagagccag actacaaggt cgcctgagac cgacattaac ccatggcgca caatccggag  180
gacgcgacca agaccaagcc ctcaaaccga ttgccataga cgaaaccaa caatacctag  240
ccacccaagg gcagcacctg agtaccacgc gtcccttgac caacacggca aaagccccta  300
ctacaatgcg gtcgtctgcc cttccaagga gccccggacg cgccccccag tcatgcgtgc  360
tacagggcag tgaactgcca agggccctga tacacgcacg actgacacgc gt          412
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<210> 29700  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E3

<400> 29700

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aaccatgaca ccagaccata tgtatatgaa aggttcccc ggtacactct ttattcatcc  180
ttgaacacaa aatctagacg ccgcctctca ccatcggttg taaaaccaat gagccagaca  240
tgggtctcaca atgccaaacta aaaatcacia tatctgagta cagttatgat tatcatattc  300
tattagccca tatttccaag aagtcgctcc actgcagcat gaacatttcc agcggtagcg  360
gccaaagctc ggatgttctc ttgtgtgtca aagaaaccca tttcttgag ctgagctaata  420
tgtgtggcgt ac          432
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<210> 29701  
 <211> 255  
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 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E5

<400> 29701

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catgtcacca cacaatatag atattaaacg ttcttcacca cacactgtac tcattcctttt 180  
acacaaaact tagccgccgt gctcttacca tcattgtttta aaccaacag ccagatattg 240  
gctcaccatg acaac 255

<210> 29702

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E6

<400> 29702

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atttctatct tacattattc tcatacttct tttttataat accttactat taatgattta 180  
tacatttctc taatgtatat tgttgcttat tatcattttt atctatatta tatctcattc 240  
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<210> 29703

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-E7

<400> 29703

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actgggtcag atctcatgga aatgtttgct ggtgttgac ctttcacggg tctgcacttg 180  
ttacaagaag catggcaggg ggcttctagt atggtgttca attaccaaatt cgaagctatt 240  
ggcgcgtgca agatgacttc atgagatctc acggtcaaatt gatca 285



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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-060-Q1-K1-E8  
  
 <400> 29704

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agcaaagtct gatgtatatt cttttggggg tgttcttttg gagctgatca caggaagaaa  180
acctgttgat gcttctcagc cattgggaga tgaaagtctg gttgaatggg tgagttcatc  240
acttcatttt atataataag tgaccttact gcatgtcact aatgttaggt tctaaattat  300
gcgtaacttt tctgtttttt aaccataacc agtaaccata gtcatgagat tgagatccac  360
taataaatga catgattatt tcgtgataca ccaatggatg tgtctagact tcttcaagct  420
tcaactgttg atttcttg                                     438
  
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 <213> Zea mays  
  
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aggagtgcac agacttgggc gtgagaaaaat tcaatgtgaa cactgagggt cggaacagct  180
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aggcaatgaa agctgttgta gcagagaagc tgcgcctggt tggatcatgt gggaaagcct  300
gagcgaagta cttgcgttgc gccggcaaca tgcagtacaa gaccgactgc atcatcgggt  360
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gaagtg                                           426
  
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 <213> Zea mays  
  
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 ctgatcgctca gactgggtgtg atgatagatg cctataagaa gaaagtataa gaggaactaa 180  
 ggaaggtttg caatgaagta ttgtcagtca ttgctattca ttgccttccc ttggccagta 240  
 cgggtgaaaa tatcgatttc ttttataaga tgaaagggtga ctactaccgt tacttggctg 300  
 aatctagcac ttgaactgaa aagaaagctg cctctgatca gtcacttatg gcctatcagc 360  
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 <223> Clone ID: LIB3067-060-Q1-K1-F10  
  
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 tgttgcagcg ttgttgttta gaatgaccta tatttgactg gtattctggt acgggtggctt 180  
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<210> 29708  
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 <223> Clone ID: LIB3067-060-Q1-K1-F12  
  
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tcgccacaac cgtaaaggcg gccaacataa aggccaaagtc caactggccg gccttttttg 180  
ccaagttcct gaaaaacccc aacgtcaagg acctaatect ttccgtggaa cctggtgccg 240  
aacctgttca agtggttgtt gccgaacctg ctgggggggc tccggttgtt gttgccccgg 300  
tttgaaggg aaaa 314

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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-060-Q1-K1-F3  
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gtcatacaat ttctcgggtg tttctgtctt accaatctac tctaagctca tcaaagcaag 420  
actgagagtg tg 432

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<211> 435  
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tcaagagagg catggcggtc gcagacccgt cgagcccgtg caaggtacgg ctgctgggtg 240  
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cggagtagct cgccgtctac taccccaacg acggcgtgct gcgggcggac gtggagctgc 360  
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<210> 29711  
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 <223> Clone ID: LIB3067-060-Q1-K1-B8  
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 tataccaata catctatact accacccatg atacctattc aggagacaat agcatcaaca 240  
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<210> 29712  
 <211> 144  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-060-Q1-K1-B9  
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<210> 29713  
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 tgcaagcctg acgagcccat accagttagt cagccgaacc aaggagcgt acgagggagg 360  
 aaggtgaaga agcggatcaa gcaacgcaag gactttatca tggctgagaa gaagaagcgc 420  
 agagctc 427

<210> 29714  
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 gcaggtgttt tgcattgcgc cagtgtctatc atgtgtaatc taatttagta attgttggtt 240  
 catagacaaa acatgatttg aagaatcttg ataggttttg ttgttccaac cgaggggatga 300  
 atcattgttt gtctgtatc gagtgttaca ggctttctgg tttgct 346

<210> 29715  
 <211> 132  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-060-Q1-K1-C12  
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<210> 29716  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-060-Q1-K1-C3  
  
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gcgccgtaat gctgtccaac accgacagga gcgcctggat caaagcccat gtccacatca  300
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<223> Clone ID: LIB3067-060-Q1-K1-C5

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<210> 29719

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C6

<400> 29719

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caactccgat ggaaacatcc ttgtcgagcg attccatggg gttcccgcgg aggagaggct 180  
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<210> 29720

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C7

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cgactatgca tgatgtgaac aacatcgagg aagagatgcg caggaagcaa gctcacgctg 180

cccaggaggc gtacgaggag gacgacgaga tgccgggcgg agcccagaga gtgcagtgcg 240

cgcaacagta agcagactat catcaaggca attgggaggg gtggtgccct taaagcatgg 300

gagtgatctc tggttttgct gtcgccgagc tgggaaatag gaagctgaat cgacctcgca 360

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<210> 29721

<211> 428

<212> DNA

<213> Zea mays

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<400> 29721

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ccggacgagc tgtaccgccc catcatgaat gtcgggcgcc caagcatccc gttatcccc 180

gtcctggagc aatggaatca agaaggccat accgccaaga agttcgtcat gcacgccatc 240

gtcaagaagc tcgtcggcct ccgccgcttc gccacgcac tcgagctgtc gttctggatg 300

accgaccgca tgcacctcca cctttcggtc ggtgacgtcg cgtaccggct ggacctaatc 360

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<210> 29722

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-C9

<400> 29722



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aagagtgcct tcagctagac cagatatggt agctgatcca ctaatgtcac accaaaacgg 180  
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cgggaagctg ctggccggcg tcaccatcgc gcacggtggc gttctcccca acattcactc 360  
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<400> 29724

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tgcgcattta ctctgctgtc tatctgctgc tggtttcctt gtgcagttaa accggtaaag 180  
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cacggtagct gccccgtaat cgaaggccag aagtgggccg caactaaatg gatccatgtg 300  
 aggtcatttg acctccctgt gaagcagccg ggttcctctg acggatgcga agacgacaat 360  
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 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D12

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<223> Clone ID: LIB3067-060-Q1-K1-D2

<400> 29726

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 gcgacaacac cggagtctac gagatcctct cgttgcccca gtacgcgttc caggacgatc 240  
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 <213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B6

<400> 29727

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gatctggaga ccaacaagat catggacttg atcaagtttg acgtcggcaa cgtgggtcatg 180  
gtgaccggcg ggaggaacac cgggcgtgta ggagtgatca agaacaggga gaagcacaag 240  
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<223> Clone ID: LIB3067-060-Q1-K1-D4

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tccgagcagt ccaagctgag ggcggggctc aactccgcca tcatcaccca gaagcccaac 240  
attaagtgga acgacgttgc cggcctcgag agcgccaagc aggcaactgca ggaggccgtt 300  
atattgcccg tcaagttccc gcagttcttc acgggcaagc ggaggccttg gagggcgttt 360  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-D5

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 <212> DNA  
 <213> Zea mays  
  
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 cccctttttt gttgaaattg tcgtctggta gtcagtaaac ccgaataaaa aatgtatata 180  
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 aatt 244

<210> 29731  
 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
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 ccaccaccac aagcagcttc cctgcacaat gatcctgcc aatacagtc acattattct 240  
 caacctgcat caacgtcatc aagtttgctt tcagctgggg gtgcagtttt accagacttt 300  
 agtcccagg cagttcaata tgggcttcag aggccaacct ttcagagtaa ccttgctctc 360  
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<210> 29732  
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 <223> unsure at all n locations

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cctctatccg gactcgttcc cgcttgagac cccgccctct aaggaggagg acgcggcagc 180  
gcgacagact gatgaggcgg tggcaccggc tgtccccttg agggaggaga cggagacaga 240  
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gacggtggca gcggagaacc ccgagtgcac ggagatgctc aactacgacc aggtcttcat 360  
cagggacttc gtgccctncc tgctcgccct tctcatgcgc ggtgagaccg agatcgttcc 420  
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<210> 29733

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A10

<400> 29733

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ctgttgcgag tgttggtggc atgtccatgt tcaataggat cttcggaag cccaaggagc 180  
aggccaactc caatgctttg gccactctgg acaagttaaa tgagacactt gatatgctgg 240  
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tctcgaaagc aaagaataaa agagcggcta tccaatcctt gaagaggaaa aaactttatg 360  
agcaacaaat tgagcagctt ggaaattttc agttgagaat ccatgatcag atgatcatgt 420  
tagaagca 428

<210> 29734

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A11

<400> 29734

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cagcagaacc aaagcatggt gaaaaatggc aagcaatatc caagtctgtt gaaaactcac 180  
acctgcctgt tgaggctctt ctaaagaaaag ctgttgtggt gcttgatgta gaagaaaatg 240  
ccaatctggc aggagcctag actcactctt tttacaagga gtttggtgaa tgtgatttgt 300  
actaccatgc ttaatttctg atcacttcaa tatgagggac tttacctttt aatatttcat 360  
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<210> 29735

<211> 373

<212> DNA

<213> Zea mays

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<400> 29735

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atgcactgga gttcttaagc taaccattac aatcaggcag ctaatcattg gtgcagtttc 180  
agcacatata taattccgct tccgcatacc gcaggaaact atatgcatgc atcgacatta 240  
tttggggggc atcggaccgg agcatctcat atccattcag accgaccgtg ctcgttaggg 300  
ttcgccatgt ccttgttcag ctggtccatg taagcctcct gatggtaccg cgtcttcaag 360  
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<210> 29736

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-A3

<400> 29736

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cgcgctcctc tccgtgggtca gcgtcacctc tggcgctctc gccgagcaac aggtcaagcg 180  
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 ggccaaggcc acctggtacg ggcggcccccac cgggcgccggc cctgtcgaca acagtagtgc 300  
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 gccca 365

<210> 29737  
 <211> 344  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-060-Q1-K1-A4  
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 tccacctaac ttcttacgct aaccttttca atcagctatt taacgcatcc cccaggacac 180  
 tccccaatc actccccctt acgcataccc aaagacacta tatccatgca tcgacattat 240  
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 <211> 414  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-060-Q1-K1-A6  
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gaaggatcat tgccatggta ctgaaggagt ccctggaacg gaccaagaac acta 414

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<223> Clone ID: LIB3067-060-Q1-K1-A7

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tgctgtcagt ctctggagca tttaggtggt ctggatcaat ggaaggggtg tgtcctagcc 180

agccggcaaa gatgagctgc tgatggtaat gatgatgata agaggccact gctaccctac 240

tacgtaccct cctctttgtg tgctgccatc cgtccccggt agacgatcga ggagagaata 300

acgcagagct ctctgctccc ggctgtctt ctgccgtccc ggccgtttaa ttactagtg 360

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<210> 29740

<211> 432

<212> DNA

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cgccaggac gccgtgctgc acgtgatcc aggggctggc ggacctggag gcggcggtgt 240

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tcagcatgct cgtcaactac tgcggcaggc gcgttccttc gggcttacag tgcttctgac 360

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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-060-Q1-K1-B1  
  
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 <213> Zea mays  
  
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<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B11

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<210> 29745

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-B2

<400> 29745

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gcaagaagca aagcaatgga gaaccctgag agtgtgctag ttctaccagc gcagttcacc 180  
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cgcgcccccg acgccagcct tgtggcccg gcgtcagggga tcaccagcga aatcggaac 360  
gcgcaccaac tgttcgtcgt tgttttcgac accgacaggc tcaagggtc cacgctcgtc 420

accaatggcg tgat

434

<210> 29746

<211> 394

<212> DNA

<213> Zea mays

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<400> 29746

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taaaaaatct tttttttttt ggaaattccc aaaaaaaaaa aaaatttaaa aatttttgca 180

actttttttt ataattcagg ataaaaaaaaa tttgtggggt tttttttctt ttaaaataaa 240

cttggctttt taaaaaaaaa aggggggggc tttttaaaga ttccaatttt tctaccctt 300

cttttgaaat aataactttt tttttagggc acctaaaatt aatttacttg tgccgttttt 360

taaaaatctt gacttggaat aaccttgggt ttcc 394

<210> 29747

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-059-Q1-K1-G4

<400> 29747

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ccatgaatgc tgctgagatc actgacaagc ttggattaca ctccctgcgc cagcgacact 180

ggtacatcca gagcacttgt gccacaactg gcgagggtct gtacgagggc ctggactggc 240

tgtccagcaa cattgcgagc aaggcttgaa tatcaaatgc gaactgacta ggagctccgg 300

atgtatcatg gaaacttagg acagaatcgc ctcttcaacc tgttaggtgt cttctaccgg 360

cacaatatat tttttgcttg gaatatgtaa tgatgttacg gttcaacgtt tattctaccc 420

tactatactg ntggatgttc tttgngcctg tt 452

<210> 29748  
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 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 29748

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caatgtttgcg gtcctttggg actcgaaggg gtcggaagaa aggatgtgaa tggcatgatt 180
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gtcaaaatgt gtccttcgcg tgg 383
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<210> 29749  
 <211> 382  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G7

<400> 29749

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 <211> 426  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G8

<400> 29750

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agcagcagat gctgacatcc gcataaaaga agccatgaac cgacttgagt ctgtcaccaa 180  
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catggaagat gataacgttg acaaagcttg cgtaagcgat ccggattcag gaccggttac 360  
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<210> 29751

<211> 427

<212> DNA

<213> Zea mays

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<400> 29751

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cactaaccaa cctaggtttc acaagtcacg ccattgatgg ttgcaagatg accaatttgc 180  
tcgtcaagcg gccatcata ttatcatcat ccatcaaact tgttgacaca gattgggtta 240  
catgaagtgt tgcgtttttt tggcacggtg tttacccttt tgtaataagg tttcttccat 300  
tttgtaacaa gtttttgttt actcgtcgcc tacttttgc tcatagtgtt ctgggcatca 360  
tgggtcttgt tagaatttac ttgtaaaaac caagtgaata ttccttcagc acatattatt 420  
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<210> 29752

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H1

<400> 29752

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caatgggtggc tcaaatgctt ttccacgtac tgtatctcta tcatctgctg gtaattacaa 120  
cattaaccag tcgcttataa ggtcttccgt tggttgcact gccaatgggtg agcaaagtgt 180  
tattactagc attgctccaa gatttgaact cagtgcagcc tgttgaagag cctgtgtcca 240  
gttgacaag cagtgggtgca cagcatgtag gtactgatca caagcacaca ggtgtaactt 300  
taccagatgt tatgtctgaa ccacttgtat atgcatcaat ggttcaacgt ttcagtcgca 360  
ctgattatc gaaatgtctc aatgcacgag aaatgctgtt agtgaatgga ctgaatactg 420  
ttaacttaac ttgaaatggc tatttaaag 449

<210> 29753

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H10

<400> 29753

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cacgccaagc gcgtcactat catgcccaag gacatccagc tcgcgcggcg catcaggggc 180  
gagagggtt gagcgccgt cgtgctgctc gtcgtttag tgttactaga agtagatggt 240  
ggctttcggt tcgtggcttc gttatcctgt aggagtaatg ttctagatgt cttggcttca 300  
gtgcaatgga ctgtgattgc tcatttctga aatttatcaa tggacttggt cttgc 355

<210> 29754

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H11

<400> 29754

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gctcgacaag ctcaaggctg agcgtgagag aggtatcacc attgatattg ctctgtggaa 120

gtttgagacc accaagtact actgcacggt cattgatgcc cctggacacc gtgacttcat 180  
caagaacatg atcaactggta cctcccaggc tgactgtgct gtccttatca ttgactccac 240  
cactggtggt tttgaggctg gtatctccaa ggatggccag acccgtgaac atgctctcct 300  
tgcgttcacc cttggagtga agcagatgat ttgctgctgc aacaagatgg atgcaaccac 360  
tcccaaatac tccaaggcac gttatgaaga gattgtgaag gaagtctcat cctacctcaa 420  
gaaa 424

<210> 29755  
<211> 417  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H12

<400> 29755

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agctctaggc tctagctagc cgcgccactc cttcgtgtag ccatcagcct tctcatcgcc 120  
accaatggcc actgccgagg tccagacccc gaccgctcgtg gcggccgagg aagcgcccgt 180  
ggtggagacc ccgccgccgg ccgtcgtgcc cgaggagtct gccccgccg aggccgaggc 240  
tgaggctgag gctgaggctg ctgctcctgc tgctcccag gagcttccgg cggccgagca 300  
gcaggcagcc gccgagccgg aggccgctgc tcctgctggt gccgaggagc ccgccgcggc 360  
cgaaccggcc gccgaggcgg aggctgctgc tcctgctggt cccgaggaga ctccccgc 417

<210> 29756  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H2

<400> 29756

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gaagcacgag ctcatgtaca tgtggataga cctgctatcc aagtgcgacg cgtcgttaga 180  
gatgaagatt gcaacctgac tcaacatgaa gacaaacatg tgatgcttgt gctgaataat 240

aatgaaaaca cgcacatgcatg tcacatgcatg gaacaagaga aataatacaa gaccagcacg 300  
catggtcata ctctatatta tagatgggtca aaaagcacga agaccgtgag ccctgcacga 360  
agccccgattt ttggggcccg tccgagcacg gcacggtaga atacgcggac aggctggaac 420  
aggaaact 428

<210> 29757  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H3

<400> 29757

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atgttctact tggacaaaag atctaagaag gtcctgtttt ctagctttat tatcaaggac 180  
tcgctaaaagt tgaaaaccag cgatgctgaa acgggtgtca acctacatgc tgctagcgaa 240  
aagtttgctg aactgattcc tctcctcgag tcaagcgctg acttgcatgc tctcaaagag 300  
atgctggaag atgagtacct tgagatacca ggagacaccg tgaagcggtg ttttgcaggg 360  
cttatactcc gagatataaa ggagttttgg cgggttgccg tgcttctatc cattctcttt 420  
taccgagaaa c 431

<210> 29758  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H4

<400> 29758

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gctatatcag ctggtaattc ttgtgggttt ttgcgtacgt gtcttccaaa ttacaagccc 120  
cttttttgtt gagattgtcg tctggtagtc agtaaaccgg aataaaaaat gtatatattg 180  
ttttggaatt tgggaagtga acaaaaacct tttgttcaaa aaaataacat accaaaccaa 240  
aaatttatat acacataaca tgtagtacgt tctatgaata ataccaaaaa taaaggactc 300



tatatattgg atacttaata aaaggggttg cct

333

<210> 29759

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H5

<400> 29759

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gagccatggc gaagcctcgc agcggcgggcg gcgggcgccct cctggactta gaggggcact 120

acgcctttta cggcgcctac cacagcaacc ccgtcaacgt gggcatccac gagctcttcg 180

tgtggcccat ctctctcacc gcgctcatgc tcctccacct caccgcccc tccacgcacg 240

ccgtcggcat cagcgccgcg gtctacgcgg cctactactt tcttctcgac cgccgcgcgg 300

gcgcgctcgc cgtcctgctc tgctacctct gctgggccc cagcggcgcc ctctctgccc 360

gcctcggttt ctctgttgga tggaaaggtg tattgggtggc ccaattgttc tgggtgggtta 420

tgcaattcat tg 432

<210> 29760

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H6

<400> 29760

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ctgctctctg ctgctgctgc gtgctggagg aatgctgcgg ctgcttctga gacgtgagat 120

gtccgggaat ccgatcgcaa gttatcgctg ctagcattcg ggagcacccc agttattatc 180

atataatagt aactgtgctt gtaaataatc tggagcagca gtgttcatga gctcccagcc 240

ccgcatttat attctcataa tttgtagtac gttctatgat ttatccgaaa ataaaggact 300

ctatatatgg gattctaaat aaggtatttg cat 333

<210> 29761

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G2

<400> 29761

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cctcgacctg agtgactgca cagacaggat catcgccgag tacatctggg ttggaggatc 120

cggcatagac ctgaggagca aagcaaggac ggtgaaaggc cccatcacgc atccgagcca 180

gctgccaaaa tggaactacg acggctccag caccgggcag gctcccggag aggacagcga 240

agtcacctc taccctcaag ccatgttcaa ggaccggtc aggaagggt acaacatcct 300

tgtgatgtgt gactgctaca cgccacaagg cgagccaatc cccagtaaca agaggtacaa 360

agctgccacg gttttagacc acccgatgt tgcaactgac gtgccat 407

<210> 29762

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E12

<400> 29762

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atcccagtgt tttagtccgg tttagcctta gccatgaatg taaaaatgtt gtaaaattgt 120

cagcctgcct tacaactcct tccatcaagg caaaacgagt gcaatttctt cacgac 176

<210> 29763

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E3

<400> 29763

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cttccaaccg gatttcttcg tctttgggac caactcactc tgcgctttg cgctcaacct 180

tgctgtgttc ctgctagtgg gcaagacctc ggcgttgacc atgaacgtcg cgggagtagt 240

caaggattgg ctgttgattg cattctcgtg gtccgttata cgggacaccg tcaccccgat 300  
 caacctgttc ggatatggga tcgcgttttt aggggtggcc tactacaate atgtcaagct 360  
 gcaagcgctc aaggctaagg aggcccaaaa gaaagccgca caggctgatg aggaggttgg 420  
 atcgctcttg 430

<210> 29764  
 <211> 78  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E4

<400> 29764

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 tctacaacaa cactaaac 78

<210> 29765  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E5

<400> 29765

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 gaagacctgc tcttttggaa ctgactgata tttggatatt cacaggatgg ccttactgaa 120  
 cattgcctat acttgctaata agaaatgaac gggcatataa tacctgatgc gacatccttg 180  
 ctaggtatgc tctcataatt ccggcatgca ttcacgagg cagacggccc accgtgctta 240  
 aaggcaatga ttgaacatgg agttgtacca gagatagatc actacttacg tatagtgcac 300  
 catctagggc atacatggct gctagatgaa gcatgcgac ttattcagac gatacccatg 360  
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<210> 29766  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E7

<400> 29766

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ggtacgagga gcaaagctat cgaagggtgt tggccgagcg tgaggagggg agagagtaaa 120  
aatagttgtc aatgggtggg aggagacaga aaggagtttg gtgaccaatt ttagcacagt 180  
ttaacatctt tgggtgaagct aaagtgccga tgggtactaa acttttagcac aacactttta 240  
gtcgcctgt tgtttcttta atagctaaac tttagtaaaa atgtttggtg ctaaacttta 300  
gcaaagggga ataatgggt cttaggctga tgatttagct gggtgaaagc tgaagacaat 360  
tgcatgtcac gtaaaccaag cttggtagct catataatgc 400

<210> 29767

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E9

<400> 29767

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gttgaaggga tctgttcctc tgagatgtat gagagtaatt tgtagttata caagattgca 120  
atgacatgct ggaagattaa catagacatg tacggatata acgaaagatt aacatgtgct 180  
ggaagcagtt tcatacatc ttgtgttgca gctgtattta agagaatgag agatacaaaa 240  
tcttttgagc taaattccat gacacaagta acataagccc cccggaacct aaaactttac 300  
ctggattagg gttcttcccc ttttaataaaa agatggtcac ctttttgaac ttgcc 355

<210> 29768

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F1

<400> 29768

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aaaggtagcc aaggataagc atctgatggt taagctgcct gtcgggatcc ctactaatgt 120  
tctccacatg accaccgca aatctcgaag cagtttatga acaaacacat gggaccggtg 180

cgagttacgt atacataaga cggatgatcga cctgatcagc taccaagaca attttaagca 240  
gatcagctct attaccattg acccacttga agaacaaaac gtgactgtca actacatgta 300  
atgacgatct atatattctt accgc 325

<210> 29769  
<211> 399  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-059-Q1-K1-F10  
<400> 29769

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agttggtgct catcctagtg gatatcttgg cgaggaccca cgagaatttc caaccatctt 180  
atgccctatg gtcaacaagt tgcggttggt aggaagccca gttctgacag ttttaggaaa 240  
tgactatgca ccaggaaacg gacactgggg tccgagatca catccatgtg gtgaaccttg 300  
ttgacggaca tatcgttgta ttgcaaaatc ttttagagaa ctctcgcata ggggtgtgaag 360  
cgcacaccct tgaacccgaa agaggcacat gtgctctgg 399

<210> 29770  
<211> 224  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-059-Q1-K1-F11  
<400> 29770

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gggaaaaaaaa aagaaaaaaaa aataataaag aatactgatt attataagag tacatgataa 120  
aaaaatagat tatataaagt gagaataaaa aaataaaaagg ggggccggct tttagaacc 180  
ccaatgtttt ttaaatatgt tgggattggg aatttttttt tttt 224

<210> 29771  
<211> 241  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F2

<400> 29771

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atactctgac cctgctattg ttgataaagt gatatatgac aatcattggt atcaatggat 180  
agcatgttta aatttagaga tccataccta aaatgtttgg tgcaatttat ctttaatgat 240  
t 241

<210> 29772

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F3

<400> 29772

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caaacttaca taacactcag ggcatecttt cacatataac actcgacac atattcagca 120  
acctcaatcc acaccaaca ataactgctc aaaaaaaaaac ttataaacat taacactaac 180  
tcacc 185

<210> 29773

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F4

<400> 29773

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aagctgaagc caaatggtgg aagaaactcg ttcgagatga tcaaagggca cctgactttg 180  
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atgggatgga cttctcgaat ttcgggtggca tgggtggtat gggcggcatg ggtggcatgg 300  
gtgatatggc tggatatgggt ggtcttgggt gcatgggtgg tatgggtggt cttggtggca 360

tgggcggtat gggaatggat gatttcgaag atgagagtg

399

<210> 29774

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F5

<400> 29774

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gagctgtcct tgatggagaa gatgctgcat gtattgagct gatgtttag ccaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaag tgaaaaaaca aaaaaaaagc cacattaaat aaatctatta ataa 234

<210> 29775

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F6

<400> 29775

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cggcggcggc ggcggcggcg gaggcgccag cggcaatccg gggaagatct tcgtcggagg 180

gctcccgcgg gacaccacgg atgctacatt tgtgaggcat tttggacagt atggagaaat 240

agttgattcg gtgataatga aggataggca cacatctcag ccacgggggtt ttggcttcat 300

tacatactct gaccctgctg ttgttgataa agtgatagag gacaatcatg ttatcaatgg 360

aaagcaagtt gaaattaaga gaaccatacc aaaaggttcg gggcaatcta gctctaagga 420

tttcaagact aaaaagatat ttgttg 446

<210> 29776

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F8

<400> 29776

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acaagataaa cattgaggct agcaaaataa gtgtgggggt cagggtccata ttctgtatcg 120

tagaaaaagc tgtagccaaa tgggtgaaga aactcgttcg agatgatcaa agggcacctc 180

actttgtgaa agttgattgg gacaaatggg ttgattaaga tgatgatggg gctgatatca 240

acatggatgg gatggacttc tcgaatttcc gtggc 275

<210> 29777

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-F9

<400> 29777

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tagggagctg ctagtgagat ggaagaactg atgtcagatc agacgtgggtg atgactagcc 120

atgaaagtga actttactga taccgtactg agccatcaac tgggtgggggt aattagctag 180

ctagctaact gctgggggta tggttaatgc atgaactgct attagttacc agatgtaagt 240

gtaaatctgg agtcctgctc ttgctactgt atgtgaactg actgtttcac tccactacta 300

tgtaagaatc acagcattaa ttt 323

<210> 29778

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E11

<400> 29778

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tagctaaaga ccttcagcat aggagcaatg aaaggagtta gcttggttct ccatggatca 120

tctggtctat ctcatgaact ctctaaagaa tgcataatac ttttgctcga gaaaatttaa 180

tgtgaacact catgttctta acaactacct ggctgttcct cataaagccc caaaaagact 240

ttattcaagt gatggcgtct gctaaatatg catttaa 277



<210> 29779  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G1

<400> 29779

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ccatgactcc tttaacataa ttcaaatacc ccaaaacatt gcaaatttac tctggatggt 180  
cgttgttagc taaaccgctt accggtttta acctctgacc caatgactag ctgatcatta 240  
tatgctttac ctcaattcca aactacagc ttgaactgca ctgtgccagg aatacctgtc 300  
caattgtttt tatcgagata atctgcaatt taacctatca tatgcaaatt gttcctgtag 360  
acacttatgt cattcatttc tcatgcaaaa aaatattttg gcactaat 408

<210> 29780  
<211> 162  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G10

<400> 29780

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gcagctccta gaaccggcgt attcctgtga agtattgttg tctggccacg cctagtttct 120  
atgtcgattc ctattaggcg gctcttcatg gctggtgctc ac 162

<210> 29781  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G11

<400> 29781

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tgcaccgacg agaatttcat cataaagtcc ggcgccacgc gcgccgacgc tgcccacggc 180  
atcgccctcg tggcacctga cacctcccca cgtgggtaaa tattgaagga gagtcagaca 240  
gctatgattt tgggtgtgggt gccgggtttt atatgaatgc cacaaatgaa aagtggaaaa 300  
actggcgcat gtatgactac attgtgaagg gaccttccaa aagttttaag ggataacttt 360  
gaacaactaa acccgtaaca ggcttaaatt ttg 393

<210> 29782

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C2

<400> 29782

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gcggtccgac tacggctacc ccgcggaggc catgggccta aagtacatcc agtacgagat 120  
cgggtgtcgcc gagagcacgc ttaaggacaa gttccccagc ggtctcaaga tcttgaccaa 180  
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ggacatcagc gtcgacgtag gccgattcaa ggagggtgctg cttcaggtgc tcaacatggc 300  
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<210> 29783

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C3

<400> 29783

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ggatgaaaat caatggcagc tttctgattt ggactgccaa gctctgggtg ctggcaagag 120  
ccatatacaa cgcggttatg ggcacattcg ggtatgtggc tcccggtatg ccaatacagg 180  
tctgttaaat gagaagagcg atgtctacag tcttgggggtg ctactactgg aagcagcgac 240  
tgctagggat ccagttgact atggtcggcc tgctaataag gttcatcttg tggagtggct 300  
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<210> 29784  
 <211> 349  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C5

<400> 29784

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 gaggttgctt tcatttgcca ccttcagaca ctggtttagc atcatgaagg tgaatgggag 180  
 tggcataact tcaatagtct gaccagctc ctgagcacct gtcatagttt tacctctcac 240  
 tt cattgaca ccctgaagct tcaggctgga gtatctttgc agtcagaggc aattgtcaaa 300  
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<210> 29785  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C6

<400> 29785

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 aacttctata agcaccgcaa tgggctcctc aagaatgcgt acgaactctt cgtcctctgc 180  
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 aacagtgtca aggctactgt tgagaggtac aagaaggcac acaccgttgg ctcttcctct 300  
 gggccccgc tcctagagca caatgccag caattctacc agcaagaatt atcaaaactg 360  
 cgcaaccaga tccagatgct gcaaaacact aacaggcact 400

<210> 29786  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C7

<400> 29786

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gaattatgcc tacaacatga ggaacacccat caaggatgac aagatcgctt ccaagctccc 120

ggctgaggac aagaagaaga tcgaagatgc cgttgacggc gccatcagct ggctggacag 180

caaccagctg gctgaagtgg aggagttcga agacaagatg aaggagcttg aggggatctg 240

caaccccatc atcgcggaaga tgtaccaagg cgagggcgcg gccatgggag ctgctgctgg 300

catggatgaa gatgccccgt ctggtgggag cgggtgctggt cccaagatcg aagaagtgga 360

ttaaattggt tagtggtcga gggttggttt ggtg 394

<210> 29787

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C8

<400> 29787

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gcgcgcgaga aggccgtaca ggatcttacc gaagaattgg caaagggtga tgggaagctg 120

aagctcacag agtctctcct tgaaagcaaa aaccttgaag caaagaaaat caacgtctaa 180

aaaaaagcag cgcttgccgc acagtttgca gctgaggcaa cactacgaaa ggttcatgcg 240

gcacataagg atgatgacat gcctactatt gagggcatac ttgcaccact ggaagctgat 300

ctgaaactgg tccgtcaaga gattgcaaaa ttacaagatg acaacagggc attggatcgt 360

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<211> 416

<212> DNA

<213> Zea mays

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<400> 29788

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tgccgatgtg cctctgcctg ctatcagcgg cagcaaaaaat tgcaagctct cgagacttat 120

gtcccttttg ggcaccatta aactgattat tctaaagtct ggccacatta ttttaaaaga 180  
cagaaaccaa ctagctgaag aagaagagat caaagacaag atgaaagaac ttgaaaggga 240  
tctgcaaccc catcatcgcg aaaatgtacc aaaacaaggg gcgccgtcat aggcgctcct 300  
actttcatgc atcatgatgc cccgtctgat gtgagctatg ctggtaccaa aatccaatga 360  
agtggctcta attttacaac gttcgaactt ggaaaacccg aggtgtcccc aaccta 416

<210> 29789  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D12

<400> 29789

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ggcaatcagt cacaatacat atacttattt aatgataggt ttatgcgaag aaaggaacat 120  
atcacggttt tggtaatgtc ggaatcttgc acaaagtgc agatggtcac ctgatagcta 180  
ggatatgatg ggccctgatca gttacttgtg caaatggtga gtgattgagg aagccctaaa 240  
acttatgaac tctctatttg actgctacca tgatctgttt cttagtgcac attgtgcact 300  
tctcaaacag ttgcgcagga caggtcatac cagcattgga tgctcactgt tggaggatgt 360  
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aaagg 425

<210> 29790  
<211> 315  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D4

<400> 29790

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ggaagccatt tttatattaa accactgcac acctttttcc cacaacaaat accctatgtc 120  
ttctatatac ccacttttaa ttttcacctc acaaatactc tctgtgtctg ctattctttc 180  
aaaaataact ccacatTTTT ataccacaca accccaaatt caactcaaaa tgtacacata 240

tcaaatatct tattcacaac tctatataaa cacacattct acaatatata tacactcatt 300  
ccagtttcat cccaa 315

<210> 29791  
<211> 456  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-059-Q1-K1-D5

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tcgtcctggc gatgccgtgc gtcgccaag cggcggcggc gtcctcagg gccggggacca 120  
cgtgcggcct ggtggctggg atcgtgctca ccgccgtcct gacgtcgggc ctggtggccc 180  
tgctgctgtt cctgtctctg ggcctcacca tgggcaagct gctgcagtac agggaggtgc 240  
accatgagga ggggcaggag gactaccact ggtaccagga tctggcccgc cgcgccgnct 300  
gcctgcccag gcttggcccg ctcttcgagg acctgcgcgg cccgccaag tacatgcgtg 360  
gcggtggagg cggcaagcgc cgcgccgaag gcggcggacc agagcggcgg gtcctcgcgt 420  
cggaggacga gaacgagggg tcgagggcgc ccttgg 456

<210> 29792  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D6

<400> 29792

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gtaacattgg tttggtttta actttgcacg gtttggcca caacaaatgc catgggtttt 120  
ctatttgccc agagaaaact ttcagcgcac aagtactctt ggtttctgct ttgcttccaa 180  
ttagaactgc agtggttgag acgacagtac cataatttca actaaagtgt acatcttcaa 240  
tcttctttgc aaggctatat ataaacacat gtaccatcat atatagattc gggttggtgg 300  
tgcatccaaa gtagcacttc tcctcctatg agtagtattc cgggtgtacaa ccaacaggat 360  
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atatgttgct ttaaaattac aagc

444

<210> 29793  
<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 29793

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ccctccatctt ggtagtgca actatttggg tcggtggatg gcgtctgcag tttgctcaac 180  
ttatttacag gggtttgggt catgcctttt gtgatgtata gctgaagtat tttcccggtt 240  
tggtttgttt ccagacccc cagacttacc ctttccctt tttttttct ctccttcttc 300  
tttctttctt tttttcttc tttttcttt tttttcttt tttttcttc tcttttcat 360  
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ttttttctt tt 432

<210> 29794  
<211> 221  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D8

<400> 29794

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ttgaaatctt ttataaatca atgaacaatt ttaaacaata tgattattat aattcttttt 180  
aattatttta ccaaagatat tctttttata atctactttt t 221

<210> 29795  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-D9

<400> 29795

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cgccgcggcg agggcgccga gccgcgcgca cgtcgcggcg gccgggatgt cctccagggc 180  
gtcctccttc gtcggtttct gctgatgcga cctttctgcg gtggccgcta ttgttgcttg 240  
tctgtccatt aagactggct tccatgaaat ttgatagggt ctggtgttcc aaaccgaagg 300  
atgaatcatt gtttgtcc 318

<210> 29796

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E1

<400> 29796

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cagatgcgaa ggcctgctct ttcggaactg agtgatctct ggatatgcac agcatggcct 120  
gacggaacat tgcctatact tgccaagaga aatgaacggg catataagcc ctgatgcgac 180  
atccatgcta ggtgtgctct cataatgccg ggatgcattc atcgaggcag aggtcccacg 240  
gtgcttcaag gcaatgactg aacatggagt agtaccagag atagatcact acttacgtat 300  
ggtgcatcat ctagggcatg catggctgct agatgaagca cgcatctta ttcagacgat 360  
accgatgcct tcaa 374

<210> 29797

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-E10

<400> 29797

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tcgaccgaga gctagcacgc gatggcgagg tcttccaaga tgatggtggc ggcagctctg 180  
ctggccttgg ccctggccgt gtcgaccgcc gaggcgagga acatcaagac cacgacgacg 240  
gagaagaagg acgacgcggg ggtgcagccg cagaccttcc cgcccttcga ccgcctcggc 300  
ggcggcgcggt ccccggcgtt cgggcgccct cccggcggca gcattcccgg gttcagcatg 360  
cccggcagcg gcagcagcct acccggggtt agcttgcccg gcagcggcag catgcccctc 420

<210> 29798

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C12

<400> 29798

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tgcgcataac ttaaagtccg cactgacaag ccagagtccc tactgccaca tgatgcccgg 180  
gatctgaaac tctatcacca gcacttcggc aaaatgttga tcgattgact aaatgctctg 240  
tccaaagaac tcactatattg actgctacga tcatctgggc accagcgcgcat attcagcact 300  
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<210> 29799

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A6

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gcaatggatt cgactcctcg gttatgtcta cagcagcgac aaccggaagc tctggaagca 180  
ccgtgactga ccttgggggt gtaggcagag gcgtcaaagc agctagcatc aagccgatct 240  
ctgctgaacc tgctgctaat acctgcactt gattcaccat ctcaacaagg tgacagcagc 300  
atcaactctg aggttgttcc tgcaacgcag actggagacg agtcagtatc taagtaaatt 360

acaatttcat tagccctact gtaatgttaa cttgctggaa catattaact gctatgt 417

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<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A7

<400> 29800

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tcagcatggg cctggtgaag gaaggcatcg acatggagga gggaaccctt gagatcggca 180

tggagtacag gactgtatct ggtgttgctg ggcctctggt catattggat aaagtaaagg 240

gccc aaagta ccaagaaatt gtaa acatcc gacttggaga tggcaccaat cgccgtggtc 300

aagtcctgga agttgatggc gaaaaagctg ttgtgcaggc ctttgaagga acttctggaa 360

tagacaacaa atacacaacc gtgcagttta caggcgaggc tttgaaaact cctgtcttac 420

ttgatattct tgggcgcatt tt 442

<210> 29801

<211> 429

<212> DNA

<213> Zea mays

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<400> 29801

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agttgctatt tgctgaaagg aactggcctc ttctggatca ttggtgtcag tttttacagg 120

tcagacacaa taaagccata tctagagaca catgggccca gctgctggaa tttgtgaaga 180

cgaccgatcc acagttatcc aactacgacg acgaagggtc ctggccctac ctcatagacg 240

aatttgtgga atatctgact gagaacggac tcgtccagcg taaaagatga acaacgggga 300

gatgcatctc caaacaatgg ttgggctgta caaacatgat ttatctcggc cagctcgacg 360

cccaaggcct gatattggca ctctgctca attcattcac caaactggcg gcatatcatt 420

gaatttgct 429

<210> 29802  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B1

<400> 29802

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agtaaaagcc ctgggtctttg gaaacagacc tggaccagga tacgtgattt gctaactgcg 180  
ggctgagtca ccagcctggg gagcacgttt atggaaatcc cagggtataag acttagtctc 240  
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tcatttagtc atatgtgatc atatacatgt tgtacgggtgc atgtaacttt agtactatcc 360  
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aatattatta gaaaaaacgg gatgcttt 448

<210> 29803  
<211> 311  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B11

<400> 29803

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gtggaccggc ggaagttggg gaccaccgag aagcggggcg tggccacgcg gctggcctcc 180  
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tttttatttt t 311

<210> 29804  
<211> 86  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B12

<400> 29804

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gcactagccg gcctgctgaa ttaagc 86

<210> 29805

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B2

<400> 29805

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tactttctatt ttaatattat gattgctatt tcttcaaag aacctgacct tttccggatc 120

attgttgtca cattttacaa tctctacac aattaaacca tatccatata cacattgtac 180

cagctgctgg aatttgcaag accacctat 209

<210> 29806

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B3

<400> 29806

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180

tttttttttt tttttttttt tttttttttt tttttttttt ttttaataaa aaaaaaaaaat 240

attaaataaa ataaaaataa taatataaaa aagatatata ataaatattt ttatataaat 300

attatatttt tatataattt ttatattata tattattttt ttttttttta aaatttattt 360

atatttttat tttttttaaa 380

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B4

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ttagtTTTTT cagttatatt gactaggagg atgtccatgt aagcatttga tattagTTTT 180  
ttcgttaatc tcgagaatgt tactggtgcc ttttactgtt 220

<210> 29808

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B5

<400> 29808

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gtggagagat tgcgtgcact tctacgacaa agtggctgat cgaccaaagg caaaaaggat 180  
gaactgattg ctgcgttacg ggagtcgcag ggttgacatg aatctggtac ttgttttagtc 240  
aatcaaaacc cttcaggcag gggttacacg accaaatgag taccaggctg tacttgtcaa 300  
tggctgctct gcctagattg aatacaatgt aatggcatat gtaggttgag actttgccgg 360  
accttattat actcagaatt tgtaaactag ctgttacctg tcagtagtca tgaattcact 420  
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<210> 29809

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B6

<400> 29809

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tgggagggct cctagattcc gtcgccctat gcgctacaga ccttacttct gaagtacggg 180  
 gtagggtaat gaagttcaat gcaaaaccag cccatgggtca ctgggtcagtc ccggaataa 240  
 tcaactgtat cgtttgcact gttgcggctc aatgctcctg tatcagctgc cttttctgac 300  
 ctttgtttca agtgccgcca taagcgacgg acatgttgta ttggcttgta atacaggacg 360  
 taataagtgc acacactttc ttgaagcgtg ctttcccact ttccaagggt actaactgta 420  
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<210> 29810  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B7

<400> 29810  
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 tttttaaatt ttttaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata 180  
 aaatttttaa ggagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattttaa 240  
 aatttacaaa aaaaaaatat tataaaaaaa aaaaataaat ttataaaca aaaaaaataa 300  
 aaaatttaaa taaaaaaaaa aagtatttat 330

<210> 29811  
 <211> 112  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B8

<400> 29811  
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<210> 29812  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-B9

<400> 29812

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ttgctgggca gtttattgac tccgattgga aagtgcaccg aagaatgctc aacttcatga 360  
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<210> 29813

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C1

<400> 29813

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gacgcggcca tgcttggtt tggccttgat aaagtgagct accaccacta ccaggcggtg 180  
cctccttatt acgtcgggag cagcaacgcg tcggtgggca acctcggctc tctgcagcag 240  
gctgatgatg ctccagctcc acaggatggg gcgagcgccg gggatatctg gagcctcgac 300  
gagctgctca tgctggcagc agctggtgct tattgagaac cgcaagaaaa aaaaatgtgt 360  
tggcgctgct agctggagac gagacgaggg cgagaggcag ttgcatcatt cgccattcgc 420  
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<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-C10

<400> 29814

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ggacgacccc accgcgggct cctctggcgc ggcagacgcc gcggacgcgc tcttctgtga 180

cagctggagg ctgtcggtag agacggccaa cgcgggcccc tggagcgccg tgccctcgcg 240

ctgtgggggt ttcgtgcggg actacatgga gggacctcgc tacgcgtctg actccgccgt 300

cgccgacgcc gacgccttag ccttcgcctt cgaagccctg gccgccgccg agtggggcgg 360

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gcc 423

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<211> 431

<212> DNA

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<400> 29815

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gtacacagcg cttaccttca tgtgcttggg gactccatcc agagcatcgg ggtgatgatc 240

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atcttctcgg tggtcgtgct gttcaccacg atcaggatgc tgcgcaacat cctcgaggtc 360

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atggaaggcg t 431

<210> 29816

<211> 439

<212> DNA

<213> Zea mays

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<400> 29816



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 taggcttact gacatcaatt gaacctcttg aaatatattt aattatattc taccctgaga 360  
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 aatttgtttt ttttaggggt tatttaaatt taattaactg gccttttttt tacaacttgc 240  
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<210> 29818  
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 gcaacctcaa acatttagat cttccctgcc tccctgggta acttgatcaa aaatttttta 180

agctccagag aatagcctta cattggcaaa tcatttgccc atagattgta agaaataaaa 240  
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<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G9

<400> 29819

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ataaattcta atagttatgt gtatatcatc tattgatttg tctaccttca ttaattacag 180  
tgtgtacttt ctttgctaag ctaaaatttt cttgtcaaca tgaatattaa gtagtttact 240  
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<400> 29820

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ggtatggagg ctgccggaat ccatgagaca acatacaatt caatcatgaa gtgcgacgtg 180  
gatatcagga aggacctcta cggcaacatt gtgctcagtg gaggttcgac tatgttcccg 240  
ggaatcgctg atcggatgag caaggagatc acttcccttg caccaagcag catgaagatc 300  
aaggtcgttg caccgtctga gaggaagtat agtgtctgga taggaggggc catcctagcc 360  
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<210> 29821

<211> 428  
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aacttgattht ttgaaatgtc ctgcattgaa acaggaaact ggcattgccca acgtttgcag   180
cactcccatt gctaattggca tatgctgggtg gcacttccat catcattcca aagcccttaa   240
ctccttatgt tggactaacg gttttggagc taggtttatt ttacaagcta ttcattgctct   300
tgtttagcagt cttttgtaca aactcgataa atatacatgc tgggtctaaat ggacttgaag   360
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atgcgctacc attgttgaga tgctgataac ttgatttttg aaatgtactg cattgaaaca   180
tgaaactggc tttgccaacg tttgcagcaa tccattgct aataacatat gctgatggca   240
cttccatcat aattccaaag cccttaactc cttatgttgg actaacggtt ttggagctat   300
ggttatttta caagctattc atgctctttg tagcaatctt ttgtacaaac tccatggata   360
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actagtattg gtgcttgata tcagtgtgtg gctgtgctaa taccagtgtg atactggttc 180  
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<210> 29824

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H4

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gacggtgacc aacatcctgg cgcaccgcga cgcgacacag cgcgcgctga tccagcagga 180  
gtaccggggc gtgtttaacc aggacctggc ccggcgcacg gcgtccgagc tgagcggcca 240  
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gaagcaggcg ctacggggcg acatcaccaa cctgcggggc gccacggaga tcgtctgctc 360  
ccggacgccg tcgcagctgc agatcatgcg ccagacgtac cgcgccaggt tcggctgcta 420  
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<210> 29825

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-H5

<400> 29825

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gaaggacagc atctcagcgc cgcgccatc gtcggtcacg acggcagcgt ttgggcgcag 180

tccgagagct tccccgagtt aaagcctgag gaggttgctg gtatcataaa ggactttgat 240  
gaacctggta ctcttgacc aactggtctt ttcgttggag gtacaaagta catggtgatc 300  
caaggtgaac ctggagttgt catccgagga aagaagggca ctgggggcat tactatcaag 360  
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<223> Clone ID: LIB3067-058-Q1-K1-H6

<400> 29826

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atztatcagg aaatccgttt gttcatggt gtgcaggctc atatctgatt gctggattcg 180  
gcaaaccgcg gttggatcct gtatcggta gtccttgctt gcaaggttct tgttgttttg 240  
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<223> Clone ID: LIB3067-058-Q1-K1-H7

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249

<210> 29828

<211> 406

<212> DNA

<213> Zea mays

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<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A1

<400> 29829

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gccgaggaag aagtcggtga cgaggccgt gaaggccggg cttcagttcc ccgtcggccg 180  
catcgggcgc tacctcaaga agggccgtta cgcgacgcgc gtctgcagcg gtgcccctcg 240  
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<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A10

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tgtggagaac gaactcgcaa agggcatcct cagaggtgat tttaaggact aggacagcat 180

cttcgtggac acccaggtta cgggtgccctc caatggccag cttccgatgc gaaagctagt 240

tcttcagaaa gtgtgtgagc aatctaagcc tgctgctgaa ggcgagaaga tcttgccctac 300

tgtctgattg gagctctgtt gcagttttgc aaatatggtg caacataatg tacatatgaa 360

ggttgctgat tctaagagta tatcctctgg cttataagag cattgcatcc acat 414

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<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-A2

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gaaagggtggc ctgacaaaaa agctgtttga ttttgcataa aagcggaaatc ttgcatcaat 180

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taaaccaata cgggcaatgc ttggaggacg tgtaagattt gttctttgtg gtggtgcacc 300

tttatcaggt gacacacaaa gattcatgaa tatatgtcta ggtgtcccag tgggtcaagg 360

ctatgggttg acttgaacct gtgctggagc agctttcact gaatgggatg acacaagtgt 420

tggtcgtggt 430

<210> 29832

<211> 417

<212> DNA

<213> Zea mays

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<400> 29832

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 ttcaacaaca ctgtgcttat ttcattgcac acagtgatat ctgcatttgc tgacagctgg 360  
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<210> 29833

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G5

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 ccaggctttt ttgggtttaa tttgtgttct cagccctgat gtttagtctg ctagcactct 360  
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<211> 441

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<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F1

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 tgcctgcgat ggatatgaat ggaaaatctg acccatatgt catactttct ctcaagaaga 180



cacagacaaa gtacaagaca agggttgtga ccgaaagctt gaaccagta tggaatcaaa 240  
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ggagctggag ctggaggaga agcacgtgct ggcgggtggac gacagctccg tggaccgcgc 240  
ggatgatgcc aagatcctgc gcagctccaa gtacagagtg acgaccgtgg attcggcgac 300  
gcgcgcgctg gagctgctgg cgctggggct ggtccccgac gtgaacatga tcatcacgga 360  
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<210> 29840

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F4

<400> 29840

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acgggggtgt gactactgta ccagaatga ctgctacagt gattgtggat tccttcacc 120  
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<210> 29841

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-F7

<400> 29841

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tggtgacttc aggggtggga gatatcaggt gagcgaaacg gtgaacatat tttcacatag 120  
agtgagggtg actaaaggtc cccgtggcat catcaggatc gttccccaga aaggggacac 180  
gtgggccttg taccgtaact ggtccccga ctggaacgag ctgacgcctg atgacgtgat 240  
atacaagtac gagatagtgg aagtcgctga tgatttcact gaggagcgag ggctgactgt 300

catcccgttg ctgaaggttg ccggattcaa agccgtcttc cacagacacg tggatcccga 360  
agaggtgagg aggataccaa aagaagagct gttccgggttc tcgcaccggg ttccttctcg 420  
t 421

<210> 29842  
<211> 446  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-058-Q1-K1-F8  
<400> 29842

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gtttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgctcg 120  
gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180  
aggctctcga gtccaagatt atcctcgatc gggagacgca gaggtcccg cgccttcggct 240  
tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300  
agctggacgg ccgcaacatc accgtcaacg agggccagtc ccgcggcggc tacggcgggtg 360  
gcggggcgccg tgatggcggc ggcggctacg gcggtggcgg ctgcggctac ggtggcggcg 420  
gtgggtacgg tgggtggtggt ggcggc 446

<210> 29843  
<211> 427  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-058-Q1-K1-F9  
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ggccccgcag ctactgcggc tggcctcgct gagccgggca gggcccatcc ggcttgggct 180  
cgacattggc ggcggcacgg gcacgctggc ggcgcggctc aagaagctcg tcaacgccac 240  
ggtgctgacg acaaccatga atctgggcgc tccctactcg gaggcggcgg cggcacgcgg 300  
ggtggtgccg ctacacgtgc cgctgcagca gcggttcccg gtgggggatg ggaccatgga 360

cgtaggtgcgg gcggggcacg ccgtgaaccg ttggatcccg gaggtggcgc tggagttcct 420  
gtggtac 427

<210> 29844  
<211> 425  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 29844

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cttactgtgc agcatatgga gagagtgcct cacatgctgc tctaacaatc acttcgggttg 180  
tgthttctcca thttctgttt gctgggatag thttggccac actttgctgg thccttacia 240  
attcttactt gagagaggaa cctaacagcc atgttggtga gcaacgcgtg gagtggctct 300  
atgcatttga cgttcattgt aactcgttct thctgcgtt tgtcatccta tatgtggtgc 360  
agtattttct gtcgcctcta ttggtcgcgc atggcttctt tccagctttg ntatctaatc 420  
tactc 425

<210> 29845  
<211> 424  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-058-Q1-K1-G11

<400> 29845

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gaaatctgtg ctggatagag cgaccgagct actggcggat ccccatthcg cagccaaacta 120  
cagcagatca gcacgttcgc thtggcatgc gtcgtttgat gctthctthg gactgctgac 180  
gaagtactgt gacagcaagt atgaaagtat cgtgcagagg thtgccatgc agggatccaa 240  
ctccatggga ggacctgaaa ccaccaaagc agtcagcagg gagatgcccg ttgagctgtt 300  
acgtgcgagt cthctcata ctaatgagca gcatcgtcag aactgctag atthtgcctc 360

gaaatctacg catctgcctg gtttcagccc tactgctaac cgtggacttg tcaattctga 420  
atca 424

<210> 29846  
<211> 427  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-058-Q1-K1-G12  
  
<400> 29846

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cgtcttaate aggtgctcgg ttgggctctt gggtcagtgg aaattctgct tagtagacat 180  
tgtcctatct ggtatggtta caatggacga ttgaagcttt tggagaggct ggcttacatc 240  
aacactattg tatatccaat cacatccatt ccgcttattg cctatttgtt gcttcccgtc 300  
atctgcctcc ttaccaataa atttatcatt cctgagatta gcaattatgc tgggatgttc 360  
ttcattcttc ttttcgcctc catttttgcc actggtatat tggagctcag atggagtggc 420  
gttggca 427

<210> 29847  
<211> 383  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-058-Q1-K1-G2  
  
<400> 29847

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ggggtggcaa gtagctagga aggagagccg gagggaaggg caggccatgg cgctggaagc 120  
ggtggtgttc ccgaaggagc acctagcggg cactgccaag gcgcgctcgg cgtcgtcact 180  
ggcctgcggc ttccgcaccg aggaggtcga ggacaacggc ggtgtgggtc tgcaaggaga 240  
ggccggcgcg gccaccacgt gagagtactg ggacgcggcg ctctgcccgt gctccactgc 300  
acctgctggt gccgtggagg agtgctggta cgtgcggcac cggctttccg cgtccccacc 360  
ggcgacggcg ccttcgccg tcg 383

<210> 29848  
 <211> 321  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-058-Q1-K1-G3  
  
 <400> 29848  
  
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 gggcgcgggg gctctggcgg tactggccgc agggcacagg cacgccgtcg gtccaagccc 120  
 aggaagaagt gacggcgtag caacacgtac gtacgtgcgg tacgttggtg gttgtgccat 180  
 ctgtaaagtc cgggccatgg ttgttcgtgc gtgtacatgt ttactatact aaatactatg 240  
 ggcatatata gatgagcttg ctactcgggtg atcgggtatac gtacgccatt atttaaggca 300  
 ggatagttcc tccttttttg g 321

<210> 29849  
 <211> 344  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-058-Q1-K1-G4  
  
 <400> 29849  
  
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 gggggattcc ccatcagcat gtccaccgac tgcaacaaga tcagctaagt tacgacgacc 120  
 aagctaataa gcttaccgaa cgtacacgta cgtcccgcgc gctgcacgag tgatgaagcc 180  
 aggggaagaaa taaaataaag ctagctgtat tgccaggagc agcatgcagt atcgatctat 240  
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 ttcgatccac ctacttggtc agacagttga aaaaaaatct aaat 344

<210> 29850  
 <211> 407  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-058-Q1-K1-E9  
  
 <400> 29850

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ggataagagt gaggttgaaa cctcacaagt tgcgggctct gattcaatag tcatagaaaag 120  
ggtggaaaca aatctgagca aggaaccctt tctgctagtt cccttggaaa ataaggaaga 180  
gaaagagtcc cttggtataa tttgttatct tgaaaataac aaggttgatg ttcctgaggc 240  
cttctctcca aggagagata tacttgaatt gtcaatctct agcaagtcta ctgatgatag 300  
tctttcattg ggttgtgaga caccacgtga aagcatcttt gatccatttg ctccaggacc 360  
tgatgaggca gcctgtgcac caaagaagaa agtgactaga ggtgctc 407

<210> 29851  
<211> 312  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D11

<400> 29851

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ttcacaaatt tagcaactac tgcataaaca gggttcgtct tccaggcagc cgtgccaaaag 120  
ttcatccagt ttcgtttgga cccagctagc agcagcactc ttcttgccag tggaaatgtg 180  
tcagtctcac aaagcctcaa tgtcactaac aaccagcatt ggcagaaacc acttgcaatg 240  
cggattctga tgtggtacaa agtgcaagtg gtgaaaacag gctggagcaa gggcaaatca 300  
gcaacttttc tt 312

<210> 29852  
<211> 426  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D12

<400> 29852

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ctagttctcc aggcccttct ggtctctgcg gccgtggcca aaggacctgc atggccgacg 180  
acgaagaagc agtgctggtg cggcgagtgc accagctggt cgggcgtgtg gacctgcgac 240



gacctcctca ccaagtgcgc cgtcacctgc aagaactgcg tccccgtgtc cacggacaag 300  
 ggggccatca agtacaggtg ccgcgacttc ctccccgaaa actgcgggctg caagatccac 360  
 tagagactca tccaattcca ccatggccgc gcgccacagc ggcacagccg atggatcctt 420  
 ccatgt 426

<210> 29853  
 <211> 451  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-058-Q1-K1-D2  
 <400> 29853

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 agcgtaccat tcgtgatttc tgcattgaaa gcgcgtccat agttttctgt actgtatcta 120  
 gctccacaaa agtaaccgct aacaaaaagc tagagttgct tgtggttgat gaggctgccc 180  
 agctgaaaga atgtgaaaca ctgatccctt tgcgtctgtg gaccttaaag catgctgttc 240  
 taattggaga tgagtgccaa ttaccagcaa cagtcaaaag caagatgcat tatttggaag 300  
 aagcctcttc gaaaggttga gttcacttgg gcacgaaaag catctactca atacgcaata 360  
 cagaatgcat ncatccatta gtattttccc gaacactagc tnttatgaaa ggaaggatct 420  
 cggatgcac taatgtcatg gaaaaagaac c 451

<210> 29854  
 <211> 393  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-058-Q1-K1-D3  
 <400> 29854

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 ggtgtgccgg acagcccatt cgcacccctt acgaaatctg ctgcgctttt gcatgacagt 120  
 ttactgcca cggagaccga gaacaccgtc gcgtcccgctg ttggcgtgga tgccggtgtc 180  
 gggagcaaga tcgacggtgg gagcaaccat ctccgcccc cgcggttgga aatcccttcg 240  
 cccagctcct acttcttccc catgcacagg ctgtcctccg atcacggagc catgggggatg 300

taaagttcac cattgtaggc gagttatacc ctccaaccta gtcatagaat actagaagcc 360  
aagaaaagcg atggtggaat atatagggaa aaa 393

<210> 29855

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D4

<400> 29855

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aggggagcga cctgaacaac gcgccaacg gcgggttcgc gtacgtgcgg tccagcgcg 120  
agacggccga gttctacagg ttctggtacg cggcgcgagg gcgccacccg gggctgcacg 180  
accaggacgt gctcaacgcc atcaagcgcg acccctacgt gggcgagctc ggcgtccgga 240  
tcaggttcct cagcaccgag ctcttcggcg gcctctgcga gccagccgg aacctgagca 300  
gggtctgcac catgcacgcc aactgctgca tcggcctgcg ccgcaagatc ggcgacctca 360  
acgccatgct ccaggactgg aggcgggtaca gggcgctgcc gcgcgaggag aagcgcgagg 420  
tg 422

<210> 29856

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D6

<400> 29856

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gggacctcac cgtggagatc gacgaagacg tgctcgtcat caagaagagg aaggagctgg 120  
tgggccagcg gagccctggc agtggcgctc cagagtacgg ctcccagtcc cagcagcaga 180  
gcaggaggtg caccgcagat ggcaaggacc cgctgccggc ggcacagcag ggccagggcg 240  
gcgaggtggt ctatgcccg atgctcctcc cggcggggta cagcaggtat ggcgtgcagg 300  
ctgagctcaa gtccggcgtg ctcatggtca cttgtcgcaa ggtcacggag cgagcgcgca 360  
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<210> 29857  
 <211> 367  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-058-Q1-K1-D7  
  
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gcatatgcca atgacgcctg agaatcttta gctgctcaaa gatgctggaa aatgctaagg  120
ggcccagcat gttttgcccc tgcgcgtcgg tacaactgca attctatagg atccagtctg  180
agattttgct cgtgttttgg gtttcccttg gacacaccgc tgctgatacc attgtagagg  240
gaggagcata acgtttccgt ttcgagtatt gactttgggc acttatagct gtcaagacat  300
gacctgggtc ttgttagatt gtatcactag attgcttttg aattcgaacg aagtgttaat  360
cgtgggc                                           367
  
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<210> 29858  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-058-Q1-K1-D8  
  
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tgttggtcgc agtcgttcca cgccaagatt gcgatccgtt tctgagcttc gagggatcaa  180
agatcaagcg ttggcgacca agtgateccag ttcttcgagt tccacgagat taaagaccct  240
aagcatctct ttggtgaagg ttgcctttgg tgcaatctat gtcaggtaa agaaggaggc  300
gtcgagggtg ttctccagga gttccaggac ttcgacgagt tcgaggatta ggctagcgac  360
ctccccagtc cagctgcttg tgggtgggttt atttacgttg gctacgtttc tattctgtgt  420
actttgatta tattatgtaa atgactctag tctttcatat tattacttac tctt       474
  
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<210> 29859  
 <211> 421

<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-058-Q1-K1-E1  
 <400> 29859

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tgaaagcaca gagaaatata ggcttggtgc cgaggacctg cgtttggttc tgaagattga  180
tcctacaaat aggctggcca ggagtacaat tcaccgcctg aacaagttgg ctgactaggg  240
atgtctttct agcgccctga tgtaatatgt tactaccact gtactgcata cttctcacat  300
gagatctgtg agttatttga actctntagt ctttattact atacttgggg ctttggggga  360
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t                                                                    421
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<210> 29860  
 <211> 324  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-058-Q1-K1-E10  
 <400> 29860

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ttaatactac gactgctaca gaggaaacaa gatacctgta ccgatggaat atgattcgtg  120
tattattcct tgggaacttg aacttatcat atggagttgt aaattatttt gtcatttcga  180
cttatgttca cttcatcatt gccttgatg atcatgtaat tcagagaccg cagagcaaag  240
gtgggctggg gcttagggcg tatttggaag caaagtattt taaaactata gttttagaat  300
aatatagttt taagatgtta cgac                                          324
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<210> 29861  
 <211> 431  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-058-Q1-K1-E11

<400> 29861

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caccgaggcg cagtcgctcg tggccccgg cctcggcgcc gccgccgggc cagccatgga 180  
gtcatggcc gtccctaaga agaaggtctc caagtacaag aaaggtttga ggaatggacc 240  
caaagctttg aagcctgtgc cggtgattgt tcgttgacgg tgctgcggcc gagtgaagct 300  
accccacttc tattgctgca gtggagaaaag aggaaacca agcgagtcga actcataaat 360  
gttttgtttt cctactttgc tcaactatgt acgtctgaaa tctggacatc gtaataccaa 420  
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<210> 29862

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E12

<400> 29862

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tgatttagta caaaaatatg ttcttagtga taatgtaaag agtgctctgg aaaataattc 180  
ttcaacagaa gaagacaaga atgcagagcc agataatagc aagcgtggag atccaaatga 240  
tccacgcgtt agattgaagc gggactgtgt tggtttactc gcggctttca agcttaatga 300  
tccttgagat caaagtttga ttgtggcaaa cacacatatt tattgggacc cacaatggat 360  
cgatgtaaag ccggctcagg caaaatatct tctttcgaga gtatctcagc ttgagca 417

<210> 29863

<211> 237

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-058-Q1-K1-E3

<400> 29863

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 gtgcaatctg tttgaatgct tcaaaccttt gtggtggaac ctttgtatgt ttgaacctct 180  
 attgtggaag aactagtgtg ctggaatgat gtatgacttg tgatgagaat gttgtgt 237

<210> 29864  
 <211> 242  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-058-Q1-K1-E6  
 <400> 29864

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 ataaattccg tgaccagaag ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa aattaaaaaa 180  
 ttaaagtaaa acaaaaatga aaaaaatgaa cttttttata cagccaccta aactggaaaa 240  
 ac 242

<210> 29865  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-058-Q1-K1-E7  
 <400> 29865

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 cttcttcgcc ttcgccgacg catgcggctg caggtgcggc ggatcctgcc ctagtccagg 180  
 cggcgggtggc ggtggcgggtg gaggatctgg tgggtggtgt ggtggaagcg gtgggggtgg 240  
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<210> 29866  
 <211> 474  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-058-Q1-K1-E8

<400> 29866

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cctccgatgg actgttaaga atcaacctga acaagaagag actggacaag gaagctttga 180  
ctgctgctaa attggcgaag aaggagagcc accttcgaag gtctgtgggt gctgaccagt 240  
atctcagtgc ctcaactgat gacatagtcc ctttggacaa ctacctggac acccagtact 300  
ttggacagat cagcatcggc acgccaccac agaacttcac agtgatattc gacactggaa 360  
gtccaactt gtgggttccc tcatccaagt gctacttttc gatagcgtgc tacttacacc 420  
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<210> 29867

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-D10

<400> 29867

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aacctcctct tcttcgcctt cgccgacgca tgcggctgca ggtgcggcgg atcctgccct 180  
agtccaggcg gcggtggcgg tggcggtgga ggatctggtg gtggtggtgg tggaaagcgg 240  
gggggtggga gtggaggggg tggatcgggt ggtgggagtg gaggcggagg atctggtgga 300  
ggcgtgagca gcggtggagg cggcgatctt ggtggtggtg gaagcgggtg cggcagcgga 360  
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<210> 29868

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B3

<400> 29868

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tccagagggtt gctagccatg gcgagggaag catctgcgcc tgcggcgga acagaagctc 180  
cgatcatggat gatgactatg gtgttagggg tacacaagag cgatcacagc tcttactcgc 240  
tgcaatgata actgctgcac tttttccgt caagccatat cgcacagtc cgctgctcg 300  
cgtcacgcga aataccaccg acggctgcga ctgtggcctt gacggtcaa acgctataga 360  
tgtgct 366

<210> 29869  
<211> 429  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-058-Q1-K1-B4  
<400> 29869

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cagctccagg cataccctat cgagcaacta tttggccaca gttgctcaa atacttcaa 180  
aagcatgggtt tttgatagaa attggcagaa aaaggccatt gtttcagtta tggaagctgg 240  
tggtgtcaat tggtagtag aacttctaag gggtattcga agattgaatt tgaaagagca 300  
gtggactgac ttgtcactcc actntataac tttgtactct ctgaagtcaa ctatatctga 360  
aaatgttcgt gcacaaaatc atttcagaag tataggggga actggaggtc tattaatgg 420  
actgggact 429

<210> 29870  
<211> 474  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-058-Q1-K1-B5  
<400> 29870

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ttggctctga ggacgggtcca aggggttctga aagccgtccg tgcagctggt gaggcctctcg 180  
tcgatgattg gagctgtctc aagtcacacg ttcgtacttt tgaggcgcaa tgtgggtcgt 240  
tggcgagta tgggatgaag cacatgcggt ccttcgcaaa catctgcaac gctggcatcc 300  
ttcctgaagc agtgtcgaag gtcgctgctc aggcttgcaac cagcattcct tccaaccct 360  
ggagtcttat ccacaaaggg tttagcgctt aagaatcata aggtgaggcg aaatatttca 420  
gccgctccac cgcaacgaac tgggttacat taccagtcct caaggggggtc ctag 474

<210> 29871  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B6

<400> 29871

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tgtctcagaa gagcttggag aaacgctttg gccagtctcc aatttttatt gcatccacct 180  
ttatgactca aggtggcata ccccttcaa caaaccagg ttccctgcta aaggaagcta 240  
tacatgtcat tagttgtgga tatgaggata aaacagaatg ggggaaagag atcggtatgga 300  
tatatggctc tgttactgaa gatattttta ctggtttcaa gatgcatgca agaggttgga 360  
tatccatcta ctgcatgcca cttcggcctt gcttcaaggg ttctgctcca attaattctt 420  
ctgatcgtct c 431

<210> 29872  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B7

<400> 29872

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ccaaaaacat cgatatctca ccaaactact cacctgtgct caaactgac gacgcctacg 180

ccagtcaaga agttaacggg cctgacggga agccattgg tctcctatg ggaaatccat 240  
ggatctacat gtaccctgag ggcttgaagg atctccttat gatcatgaag aacaaatag 300  
gaaacccacc tatctacatc acggagaacg gaatcgggga tgttgatacc aaggagacac 360  
ctctacccat ggaggatgcc ttaaataact acaaaaggct agattacatc cagcgccaca 420  
tcgtactct taaggaatca atagacttgg gatcaaatgt g 461

<210> 29873

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B8

<400> 29873

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gggagctcca tcaggttcct ggggtgcaca gtagatgaag tgatattgtg agagcccctc 180  
cctgtcccca gccctggggc tcgtagcgga tcgtgaggga tgaatttgtg tgtggtgtgt 240  
cacagggtgtg aatgcctttg ttgtcccaat attcctaccg tgttgggagt ggctggttgc 300  
tcgcgtccac gtctttcaca tgaattgggt actgtggtag ttgtagttct ggatacggga 360  
ccaaaactaa agtattgctg tcaacaatct gcaacagtcg 400

<210> 29874

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C10

<400> 29874

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ggatgataaa tataacacag agagtgtgtc agaagaggtc cttgaggaga tgccaacatt 120  
gatgaccaag gaatcaagcg atgaaactct ggggaacacc tttctactgg atgatgaaat 180  
tagcttgccc atatcacttg aggagatagc agattctatg gatgccaaag aatttcagaa 240  
tgttgcccca ccacaagagc ttactgcaat tctgccttt caattcttga agagctaagc 300

cctggaaggc ctaggcctac gttgctgcac gggcatacgc aaatacatct agattcttcc 360  
atcagatggt atagggtttc aattctcctt gtgctgtgta attattttgt 410

<210> 29875  
<211> 327  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C11

<400> 29875

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gggatcataa atataacaca gagagtgtgt aagaagatga acctgaggat acacgaacat 120  
acatgaacaa tgaaccaacc tataaaacta atacggaaca cttttgtact ggataatgaa 180  
attagctagc ccatatacaa ttagaacatt acaaattcta tgaatgctac aaaattttaa 240  
actgtaacca tatcaaaaaa acttactaca atctgtatct tttaaaaata gaatagctaa 300  
aaacatttaa gactaaacct actttga 327

<210> 29876  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C12

<400> 29876

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aaacacccct gcttcccttc ctgcctgcac accacatctc aatctttgct gcgagctccc 120  
gatctgtggt acttccggca tcgcgaactg aagtttacca ccgatccggt ggctccttgg 180  
cattcctttt cctccagcag cggcaaagcc tccatctttt tgccaaccga cttgaggaat 240  
ggggtgcatg aagctgcttg gagtagactc aagctttatg gaagatttct agtacttcat 300  
tccaacaag caatcagata aaaacaaaag gagcaacttc aacagaacct gctgctccag 360  
tgattggacc gaccgatatt tgcaaaactgc tgaaattgaa tccatgggta gaggaagagg 420  
acgaggg 427

<210> 29877

<211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C2

<400> 29877

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cgaccttcca ccacctgctc tggatgattt ctacaatggc aattgggtcc ctccccaatg   120
aattcagtat gggaggaaac aaatgcaata acatttttga cctgtgaaaa acaaatcaga   180
gaaggctaat ggccagatta caaagcaatg gtcgtgcgct aatgatttct acaatgacag   240
ttggttccct cccccaatga attccgtgta gggagggggg aaaatgcaat gacatttttt   300
agctgcggaa aggcaaatca gagaaggcta gcgggccaaat cccaaagcat caatcgtgca   360
ctcttgtag cactctgaac tgaatgtgtc atcccggagg acacattttg taaaaaaca   420
gta                                                                    423
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<210> 29878  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C3

<400> 29878

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cgacaacttc gacatccctc ggctgctaa tccgtccgcc aagatcatca gctggtacgc   120
cgtcctttgg gtgtctcaaa ccagtagtgg tgactcttcc ttgcgctcct gctgagaaga   180
agcggcctcg atccatctgt tactctgtgg atgccaaggc taccgaccat gcctttaaca   240
tctctcccg tgccttctgt catcccaaca tgccgccaac gtctacgcca cgatgggaga   300
tcaaggaaga tggcaaagaa gtcaggctga cattcttcaa cttgtcggac ggtgctacaa   360
cgggcgactt ccaggttgcc agtgaagacg atgtgctcat catcaagagc                410
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<210> 29879  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C5

<400> 29879

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agtgaacttg taagctgtag atgaggatga gccagcgagc acagcgaggt acacggagct 120  
agctcaacat atcacacgga tagaagagca agacgtccga cggcacctgt acctgcatag 180  
acatcggtgt ggccattatg ctgccgccgg ttgcacgaat gttcaaggcc tgctgcttgg 240  
tagagttctg gatctgactt atgcttacat tgttcgggta cctaccgggc atcatatacg 300  
ctcgatgggc tatcaccaag ttgtcgggtc gcgcggttagc attgaatgcg c 351

<210> 29880

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C7

<400> 29880

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gccacgcgtc cgatgaaggg aagccattgc ctctaattca gaaagctttt attgggtctga 120  
ctgctggagc aattgggtgt tgttttggta gtcctgctga tctggcactc attagaatgc 180  
aagccgactc gaccctgcc a gctgcacaac gacgcaacta taagaatgct ttccatgcac 240  
tctaccgtat cagtgtgat gagggagtcc ttgcgctttg gaagggtgca ggtccaactg 300  
tggtgagagc tatggcactc aatatgggta tgcttgcttt ctatga 346

<210> 29881

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-058-Q1-K1-D1

<400> 29881

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gcaggtgcat gatgaagtga tactggaagg gccttcagag tctgcggagc tggccaagtc 180

catagttgtt gagtgcattg ctaagccctt ctatggcacc aatatcctga aggtcgacct 240  
 tgctgttgat gccaaagtgt cacagaattg gtatgcggcc aaatagacct gttaagtgtc 300  
 ccagaagggc gtcaattcct tcggtgaaac tcggcggtatt ttgaactggg atctgctggc 360  
 tgctgctagt agcctagtga gctcatctgc acgtggatgc catgcactga ttatntcggg 420  
 gttgatctgg acagtg 436

<210> 29882  
 <211> 425  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B12

<400> 29882  
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 agtccagatt cctgatcaac tcaaaacaca agccacttca tatgcactgt gccaccttct 180  
 gatacaaatc ctgtggccaa ttccggtcca tgttgcttgc tacaagggtt gcgatctttg 240  
 atttgacagc gcgcaaggtc ccatcagtat ctctaacatt gtcaatgcaa tttagagcaa 300  
 ccttcaggag atctggcacg caagcttgaa catgggggtga caagttcctg aaaatgtcaa 360  
 cagtcacatt tggagccttg ggtccaaat gaaggaaggg tagcctgatg gtttccctca 420  
 aagca 425

<210> 29883  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H5

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 catgttagca gctctcatgt acgtccttgt accaatgcca tgctgtttt ttggtggtgg 180  
 atccacacac ttcttgacca gcagagaagg tggaggggtg attaattgctg caaaattctt 240

gactggtgcg tcggccatgg gaagccttgc tattccagca attctgaggc atgctgggct 300  
aatcgagacc ggggccatgt tcatcgagtt cacgtccttc ttcaccttg tatgcacagt 360  
gctgtgcttc catagggcga ctctggatga agactggtaa atgcgcattt caccgacacc 420  
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<210> 29884

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H6

<400> 29884

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ctatgggtcc ggatcagggg atggtgaggg ccgtggcagc ggaagtgctg ctggagggta 180  
tggacatggg ggcggccgcg gtggcggtgg tggtaggggc tcgatagctg gtggctctgg 240  
gtacgggtcc gggcaatgat ctggctaccg agctggcagc ggtgcttgcg ggggatattg 300  
gagtg 305

<210> 29885

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-057-Q1-K1-H7

<400> 29885

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gatggtaatg atatgttgag tttggcattc catcaacaaa gaaactgtcg cgagatgcat 180  
tggaggctct ggaagtttca caacaacaca caaaaaaagt cttcccaaaa gaagtcccag 240  
tcgacctata gctatagtc tcttcttga cgcttcaggt tcaagaaaag gaactttatg 300  
atggaaaaat ggacttcaat ctgctcaacc cttncatgta ctgtgccggc cgagatgtgc 360

ttggtcgctt gtggttgaaa tttcagatca agagctctgg aatct

405

<210> 29886

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H8

<400> 29886

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tgcaccagag acggagaggc tagtcgttat gaggggagac tacagcaaaa tggacacata 120

ttatgtcatg cccaatggga agcgtgcaag gtgtgctggt gatgtggata agtttctgga 180

ggcaaatccg gagtacaaag accgcatatc tgcttcggat ttcagctttg cgccacccaa 240

ggttgttgag gagactgttt ctcaacaacc tgccctggcaa gctgccaagg ccaagaagca 300

ggagaaggca gaagcacaaa agtgaatgat actcccaacc gtgcttgtgt catgtttagg 360

tgatagtccg ctcaagatca tgccccatcc tatctagtgt gtacttgtct atcttgactg 420

aagtcgatgt ttaggtcttt tta 443

<210> 29887

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A1

<400> 29887

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actcgtccta ctctctggag tggatcccca acaatgtgaa gtccagtgtt tgtgatatcc 180

cgccacgcgg cctctccatg gccttcacct tcattggcaa ttccacctgc atccaggaga 240

tgttccgcgg tgtgagcgag cagttcactg ctatgttcaa gaggaaagct ttcttgcat 300

ggtacactgg tgagggcatg gatgagatgg agttcactga agctgatagc atcatgtacg 360

atctgggggtc tgagtaccag cagtaccagg atgccgctgc agatgaagag gaatacagg 420

actaggagga cgtccatga 439



<210> 29888  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A11

<400> 29888

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accaatatgt tcaagctctg caaggtgagg tttgttcagt ttggccaaaa aggcattcccc  180
tacctgaaca cctacgacgg tcgcgctatc cgctacctcg acccgctcat caaggccaac  240
gacaccatca agatcgatct gcagaccaac aagatcatgg acttcatcaa gtttgacgtc  300
gacaacatgg tcatggtgac tggcgggagg aacaccaggc gtgtaggagt catcaagaac  360
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gtctagtttt ct                                                         432

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<210> 29889  
 <211> 367  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A12

<400> 29889

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gacaccaata tgttcaagct ctgcaaggta aggtttattc agtttggcca aaaaggcatc  180
ccctacctga acacctacta cggtcgcgct atccgctacc tcgacctgct catcaaggct  240
aacgactcca tcaagatcga tctgcatacc atcaagatca tggacttcat caagtttgac  300
ttccacaaca tggtcacgtg gactggcgct atgaacacca aacgtgtacg aatcatcaag  360
aacattg                                                         367

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<210> 29890  
 <211> 429  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A2

<400> 29890

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gccgccttca acagccagct ccagggcacg caggccatcg ccatgacgct cttcggcgcc  180
gtgccgcccg tgccctccga catccttgcc aaggccttcc gcacagcag cggcgaggtg  240
gaccacatca aggccaactt cgcgcccaat tagagatcca acgtctgcat tccttggtatt  300
tgctcaataa taaatccccg cgggtgtgcat ttcgattgga tcgtcttcgg ttggtttgct  360
tcgagacatt gctgaccgcg cttgtcactg ctaatttgtg cggagcggag gagttgcttg  420
tgctccgat                                     429

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<210> 29891

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A5

<400> 29891

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ggaaagatga gcaccaagga ggtggacgag caaatgatca atgtccagaa caagaactcg  120
tcctacttcg tggagtggat ccccaacaat gtgaagtcca gtgtttgtga tatcccccca  180
cgcggcctct ccatggcctc caccttcatt ggcaattcca cctccatcca ggagatgttc  240
cgccgtgtga gcgagcagtt cactgctatg ttcaggagga aagctttctt gcattggtac  300
actggtgagg gcatggatga gatggagttc actgaagctg agagcaacat gaacgatctg  360
gtgtctgagt accagcagta ccaggatgcc actgcagatg aggaggaata cgaggacgaa  420
gaagaggtcc atgacgagta aggtgatctt ggaccctgct gcatact                     467

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<210> 29892

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-A9

<400> 29892

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tgtcatttgg gctcagttcc ctgagtacta caacgaaaag aacaccataa tgtttgatga 120  
tctaagaagg aatttcgtca tgaatccaca gaacggtctc gtgatcaagc cattcaggaa 180  
agcgactca aacaggcatg atgatcacga gctggtaaag cttacacact acctgctttc 240  
gatcggagac ctagaagatc tcagcaagct tgaccacggt aaatgggagt cctttgtaga 300  
tgagagcgta aagagacgca agcgctctta gtttccgtca gtatagtac tgtcagaaaag 360  
aaaaacagaa caccattttt cttttctttt cagtgtatg gatacctcgc agattagagt 420  
aaccgaatga 430

<210> 29893

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B1

<400> 29893

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accgtaactg aggaagttgc tccggtcgtc accgtctccg aggagccggc gccggaagcg 120  
gcgaaggagg tgggtggagaa gccggaggag gggaagaagc ccgacgagga ggggtgacgag 180  
aggaagaagg ccgaccccg cgcgcgagaag gagaagaagg cgaggaagcc gcggagcatg 240  
aagcccaagt ccgcggggct gcaccacccg ccctatttct agatgatcaa ggaggcgatc 300  
ctgtcgcagg acggcgggaa ggtcggggcg agcccgtacg cgatcgccaa gcacatgggg 360  
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<210> 29894

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B10

<400> 29894

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agatggagat ggcgggggcg gccgaagcgg acacgccgtc gcaggagccg gtgcgcacgg 180  
gccggagcaa caccatcctg ctccccatcg gcggcatcct cctggcctac ctgctctacc 240  
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gccgcgcgcc gaccggcggg ggccgcgtgc tgccctactt cgcgccatc gccgaccgcc 360  
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ggttccccg 429

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<212> DNA  
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cctggcagcg gcgctgctgc tgctggcggc gggggccggg acggcgtcgg cggcggtgag 180  
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gtcgccctcc gcggcgtgct gcagcggggg gcgctcgtc aacagccgcg cgctcgtcgc 300  
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<210> 29896  
<211> 452  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-057-Q1-K1-F2  
<400> 29896

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ggaaagaatc aatatacttt taatgtcgaa tcgggattca ctaagacaga aataaagcat 180

tgggtcgaac tcttcttttg tgtaaggta gtagctgtga atagccatcg actacccgga 240  
 aagggtagaa gaatgggacc tattctggga catacaatgc attacagacg tatgatcatt 300  
 acccttcaac cgggttattc tattccactt ctagatagag aaccgaccta aaggagaata 360  
 cttataataa tggcgaaaca tttatacaaa acacctatcc cgagcacacg caagggaacc 420  
 gtatacaggc aagtgatatc caatccacga aa 452

<210> 29897  
 <211> 288  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 caggtcggca tgggccctgc cggcgagctg cgctaccgt cctaccgga gagcgacggc 180  
 acctggtcgt tccctggcat cggcgagttc cagtgtctacg acaggttcatt gctgagtagc 240  
 ttgaanctg ctgctgaggc cgtgggcaag cgggagtgga gcaacgcg 288

<210> 29898  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F4

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 aagtaagctt gcagatgctg atatgacatt gttggtaaag atattgaagt cttggcctcc 180  
 acaaatgatg tttccagtca ttgattttct gagaatgttc gtgttgcatc ctgatggagc 240  
 ttctttactt ctcaagacca tcgaaactgg aatgatata cttttggaaa cctttcgtaa 300  
 agctgttgcg tcgcctgtac agccagcaaa tatgcttaca gtcctcaaag ctgtgacaaa 360

cttgtttggc aactcatgct tgcaccagtg gctgatgacc cactgtgctg agatca 416

<210> 29899

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F5

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ggcttcacaa gtcgcaacc tgcctgctgt acagtagtaa ccatgcatgc tgtagtctgc 120

cctatatgtt gacgctgtcg ttgtacctgg caacgtgtaa ttaactgccc cggagacatc 180

tgtttttgcc atctttaaaa cgtatggatc tcaataatat gacaagagtt gcctgctt 238

<210> 29900

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G10

<400> 29900

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acatgtccat caaaaaaagc gatacatcta ctaaaacaca ccaacaaaat atctaaatca 120

actgaaatgc ctgtaacctg tattatccat agcatagctc actttcaagt attttgctat 180

ccttaacatt gataagacct ctttctttac accttctctt attccgtatt caatgcatat 240

accttaaatt tacccaactt tacaggattt ccaactgatt actttaaacc agattcactt 300

tttata 306

<210> 29901

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G11

<400> 29901

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acgacgcctt cctccaggac aacaaccgtc tccgctcaca ggttgtgtcg ttgaccgaga 120  
agctgcaaga gaaggaggat gcgacggagg gcggcgccac cgctgacacc gccgcgccgg 180  
cgggtggacgt cgaggcttac ctggccgacg acgtcgagga gccagcagag cctgctgcga 240  
cgttcgaggt gctgcaggag gtgaagtccg aggacaggct gagcaccggc agcagctgca 300  
gcgcgatggg ggacgcagac gcgctgctgt acggcaagtt cgccgcggca agtgatagca 360  
gcgtggagtc ggacttgcac ggctgcgatg accactacca cgactgctgg ac 412

<210> 29902

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G12

<400> 29902

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ctctcacaag agacagcgaa ttctacagc agaacaacaa cctcctacac tcacagctta 120  
acat 124

<210> 29903

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-057-Q1-K1-G2

<400> 29903

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ccccctcacc agctccgggt tccagcggcg gcggcggcga agatgatcat accggtgcgc 180  
tgcttcacct gcggcaaggt gattgggaac aagtgggacc tctacctga cctcctccag 240  
gccgactact cggaagggga tgctctggat gctttggaat tgttccgcta ctgctgcaag 300  
cgaatgctca tgacctatgt tgacctcatt gagaagttgc tcaactacaa cacactggag 360  
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gtatcatata tattgtaggc cgtatnngtg ttcttctcta 460

<210> 29904  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-G3  
  
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 cccgcttttc tattggttcc tagcttactt actcttgctt gcctcctaata acctttattc 180  
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 <211> 372  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-G4  
  
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 cacacacccg acgccaagc cgacccacc gacgtacacc ccttcccaa agccttcgac 180  
 acccaagccg accccaccga cgtacactcc cacaccgaag ccgccggcca ccaagctcgc 240  
 cacctacact ccgacgccgc cgggtgtctca cccccccagc ccgccgccac cataactacta 300  
 gaaagcgatg cctaccatac cacactgctg tcagtctctt gagcatttaa gtggtcctga 360  
 tcaatggaag gg 372

<210> 29906  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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<400> 29906

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gctgtcgctt atgggtgctg tgtccagggt gccatcctga gcggtgaggg caatgagaag 180

gtgcaggacc tgcttctgct ggacgtcacc cctctgtccc tgggtctgga gactgctgga 240

ggagttatga cagtgtgat cccgaggaac accaccatcc ncaccaagaa ggagcaggta 300

ttctccacct actcggacaa ccagcccggg gtcctgatcc aggtctacga gggtgagaag 360

acccggacac gcgacaacaa cctgtgtggg aagtctgagc tctccggcat cccccctgca 420

ccccgtggtg tgccacagat caccgtgtgc ttgta 455

<210> 29907

<211> 451

<212> DNA

<213> Zea mays

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cacggcccag tctcagtctc atacctcata gagtccaaga attggtggga attagcagtc 120

cgcgcatgcg ttcttctctt cctcctagca tcccatctcg tcgtcgccca gccaccatt 180

gttggtgccc ttgatatgtt cgcgtactgc tgctatctat ctgtcctcct tccaccgttt 240

cttggttgctg atgacaaagg ttagagccgt aggtagagat gatatatgtt tagaggtgta 300

cacaaggaat ngtgactcga caaaactttc tcggcttttc accatcgtgg gaggacgact 360

tggatcgggc caaaagattg cagggccgag acccctctgc tcttgaacga tgatgcatg 420

cacgccgtcc gtcaaagaag tgatgcaacc a 451

<210> 29908

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G8

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 gatcgccgag cttctgagat accactccac caagagtggg gatgagctga ccagcctcaa 180  
 ggactacgtg accaggatga atgaggggaca gaatgacata tactatatca ctggtgagag 240  
 caagaaggca acggagaac 259

<210> 29909

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-G9

<400> 29909

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 aacctgacaa aacaattgtt actgaaccac atcatatatg gccaaactctg aatgatgaac 120  
 agtggttgaa ggttgaatgt gcactaaggg acctcattct ttccgattat gcaaagaaaa 180  
 acaatgttaa tacttctgca ctacacaaat ctgaaatgcg agatatcatc cttggtgctg 240  
 aaattgctcc accatcacag cagaggcaac agattgctga aattgagaaa cagtcaagag 300  
 agacgactca gttaactgct gtaaccacat ggacatcaaa tgtgcatgga gatgaactca 360  
 ttatcacaac cacaagtcca tacgagcaac aagcattcgc atccaagact gattggcgtg 420  
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<210> 29910

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H10

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 tccggttgcg aggagggtat aggatttcgc cgcggcgaga tgtcggcgta cgacgaggtg 180  
 gagatcgagg acatggagtg gaacgcggag ctgaaggcgt acacgtaccc gtgcccctgc 240

ggcgacctct tccagatcac gtcgacgac ctccgcatcg gggaggagat tgcgcgctgc 300  
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<210> 29911  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H11

<400> 29911

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 tattcatcga atcatatata gacttatact tattttcttag aaaataatga tccctcgact 180  
 caatagatat atattactca catcattacc catatctatc agcttacact tcaaaaaatag 240  
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<210> 29912  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F12

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 agcttgcgta agcaaataca gaagatggag gtatctcagc actccaagta tttctgtgag 180  
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 gggaagggtca aggctgtgg tgcttacacc atgaacactg ctagtgcggt cactgtcagg 300  
 agcacgatcc gtcgctcgag ggagcagact gaagcatgat cggtcgcttg tcaggcatac 360  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-H12  
  
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 catatgggtt ggtagaggag acaatcctat cgattcttct ctactgaaaa gggtttattt 180  
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 tgccagttta gctgctgtct cgctgatctg tttctcgtct tctgctatac ttgcacttgt 360  
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 <213> Zea mays  
  
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 atcatcatct atctttacgc acatgatattt cagcaagctc aaaaatgcta caatgactgc 180  
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<210> 29915  
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<212> DNA  
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 <223> Clone ID: LIB3067-057-Q1-K1-D3  
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<210> 29917  
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 <213> Zea mays  
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aggggtggacg cctcatcacc aaccatggaa ggcgtgatct ggaccaagtg gctggaaggg 300  
tcgctgttga agcgtgagca gtgtcatctc tgggtgtcaat ggtgtcatgt ttgatgggtg 360  
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<210> 29918  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D7

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<210> 29919  
<211> 259  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D9

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acaatcaaga catcttgaca actcatcttc accaaatcgc caccaactcc accaccaaac 240  
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<210> 29922  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-E12

<400> 29922

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tagtgccacg agaaatcgat gctgatgact ccgatgtgga gcctaaaagc gatgacgaga 120

gcgatgaaga tgatgatgac gacgacactg aagctctaataa ggacagagctt gagaggatta 180

agaaagaaaag agccgaggag aagcttagaa aggagcggca acaagcagaa gaggaggcca 240

agatgaaaga ggctgaactg atgcggggaa acccgttgat taatatcaac aatgctggct 300

ccttcagtgt taagagaagg tgggacgacg acgtgggtatt caagaatcaa gcacgaggag 360

agaccaagac accgaaacgg ttcatacaac acaccatcag gattgatttc caccgtaaata 420

ttcttc 426

<210> 29923

<211> 323

<212> DNA

<213> Zea mays

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<400> 29923

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tcgtgcaaag tacaactgaa ttcgagaaca aacttaagag catgatgttt cttttgacctg 120

atagaaagga tggcaagctg acccaatttg ttgatgatgt tgaagtcat tttgctgtac 180

ggaagagaag tgaaatcttg gtgaaagcaa ggaacattct tgtacaatat gattatgata 240

gtcctctgga atctggtgac caaagtgatt ctgttggtga tctacttttt cagccagaga 300

agtgttttac atctaaatca gca 323

<210> 29924

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E3

<400> 29924

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atgaattatt attgttgcac acagactagt acttgcgtgc atcgctgagg caatatatct 120



tccattctgt tttc

134

<210> 29925

<211> 514

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gggtccttac tcaaaacttca tgtatnncag aaaaactctt tgcannttcg gtgcgtgcga 120

gcaagtattg gtgccatctc tgcaaccagg gtacctcag tggtcagaaa atctttgtct 180

gagggctcca nnagatatgc ttctgtgata ttccggacatn ncttaggaaa tcgagttcct 240

gcagaatata tgccctcgga aattcgcaaa actaccagtc catcaatgcc ttgcatngga 300

gatacatctg tggcctcaag nagaggaaac gctcaacgat ccccttcttc cttttcggat 360

tagcccgttg ataatccaac ctccaataat gtaaggcata ccaaacatctt cttcgaaagc 420

ctntttcaag tgggtgccgag atgtgatgtg gcgaaggatt ttcttggctc gaccctttca 480

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<400> 29926

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aagataaaat taaaaaaaaa ataaataaaa tacctataaa aaaaacaaaa tactacatta 120

atcctccatt atatagacta aaattaataa atttaaa 157

<210> 29927

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E7

<400> 29927

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ttaaaattta aagacctaat acctctgtgg ttcgtatgaa acaacgacag tatcttagca 180  
agcacataaa caatccacta acaactctat cacatcaacc aacagactgt atcctaattt 240  
aaggccaaag cattccttta cctaactttt ccattttaga gataagcagg gctgctgagg 300  
aatggcagtg cagcgagaga catgagcgta tccgatgaag cgtcaccctt tctggcgtgc 360  
ttttgcctct cgagctgtat t 381

<210> 29928

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-E9

<400> 29928

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tgggtcagca taataaaagg atgagctgcc ccgccatggc acagctcctc tccaataccc 120  
tgtactacaa gcgattcttc ccatattacg ccttcaatga gctcgggtggg cttgacagct 180  
aggggaaagg atgcgttttc acctatgatg cagtaggttc ctatgagaga accggttaca 240  
gtgctcaggg aactggatct actttgatca tgccagtcct ggacaatcaa ctaaaatcac 300  
caagtcctct attactcctt gtcagggatg ctgtcacacc attgtcggag tcagaagcca 360  
tcgatctagt taaggacgtg tttcgatctg caactgacag agacatctac act 413

<210> 29929

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F1

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tttgtttaag ctaagttttg cggagacaag atacttatat atgttccgga tgaaattatg 180  
gttc 184

<210> 29930  
<211> 383  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D10

<400> 29930

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aaggagtcag atcagtggag aaaatttgag cttttctgta gcgatgaatgt tgataataac 180  
aggtcagtat gtgaggaagg tttatttggg tggaaacggg cattcgtgtc gtgttaatcc 240  
agcaaatcct gtgtagggtta agtaacaagg cttctgtgct gttaaaaaata ttttactatg 300  
tcatttcttt ggacggtttt ctgaactaat gtgtggttac cattatgcct tgttcggggt 360  
aaaaaaataa aaatagggt gtc 383

<210> 29931  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F10

<400> 29931

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gcgatgaaga tgatgatgac gacgacactg aagctctaataa ggcagagctt gagaggatta 180  
agaaagaaag agccgaggag aagcttagaa aggagcggca acaagcagaa gaggaggcca 240  
agatgaagga ggctgaactg atgcggggaa acccggtgat taatatcaac aatgctggct 300  
ccttcaatgt taagagaagg tgggacgacg acgtggtatt caagaatcaa gcacgaggag 360  
agaccaagac accgaaacgg ttcatacaac acaccatcaa gactga 406

<210> 29932  
 <211> 457  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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ggcgtgggcg attaaataaa gaaatagtgg aaaagggttg cttcatccgt gcggttgagc  120
gatctatagc agggatagag aaaaagcatg caaaattgaa gggtaatgaa aaagctgttg  180
ttgcgcggca tgaagtaggt catgcactcg tgggaactgc tgtagcaaac ctcccttctg  240
gacagccacg tgtggagaaa ttgagtatat tgccaagatc tggaggtgca ttaggcttca  300
cgtacacccc tnccgtcaca gaggatagat atttactctt tgttgatgaa ctacgtggcc  360
gttttagtaac actactgggt gggagggcag cagaggaagt tgtttttagca tgactggttt  420
cgactggtgc acttgatgac ataagacgtg ctactga                               457
  
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<210> 29933  
 <211> 453  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B5

<400> 29933

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aggggaagcc cgacctcagg aagaagggtga tgcccgccgt catcgtccgc cagcgcaagc  180
cgtggcgccg caaggacggg gtctacatgt acttcgaaga taatgctgga gtgattgtga  240
atcccaaggg tgagatgaaa ggttccgcta tcaactggacc tatcggcaag gagtgtgctg  300
atctttggcc taggattgct agcgcagcaa acgctatcgt ttgagagctt gttggaatat  360
gttcagactt ctatatgatc atcttattat caggtgctaa aagggtattt gggcttaatg  420
ggccctttat gtttgttcac tcaattttgg agt                               453
  
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<210> 29934

<211> 406  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-057-Q1-K1-B6  
  
 <400> 29934

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ggcttccttc gtgtgatact ggatggaggt tctactcgtg tcttctctcc aaatgatgca  120
gctttattgg aggaagatct tgaaaccctg aaggaatttt ttgtttctgg tggagatgga  180
ctgcctcgtg gaactgttga aaacttgggtc tcgcgtgtac gtccgtgaat aaatctgata  240
aagcaagaga cccgcgtgct cattgatgac ctacgagaag ttactcaagg tggcaagaag  300
caatttgag cggaactcaa aacctnctt agggctcctgt gtcacagaaa tgattcagag  360
gcatcacatt acgtgaagaa gccattcaag gatcccaact taactt                    406
  
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<210> 29935  
 <211> 349  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-B9  
  
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cgtcctgcct ttggagctct cagcgagatg cagtctctgc aatgctttaa gcccgtcggt  120
gctgtgctta gtttcttgtg cacgtgagtt gaatgcctca agggctggtg actttgtagt  180
gtaagttatg caacgatgac atagattagc tattataaat cctaaatgag gtatgtatgc  240
gcatgctgta ttgtagtgtg gtagattcgg acttcgcaat tgcaactgat gctacacttt  300
tggtcagtga tgatgccttt cgctgcaaaa aaaaacattt tataaaatc                    349
  
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<210> 29936  
 <211> 452  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-C1  
  
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accgcattaa ttgtacatta cctcggatgt accagcttgc tcaaggtgga actgcagttg 180  
gaactggctt gaacaccaag aaaggatttg atgccaaaat agctgctgca gtggctgagg 240  
aaacaaacct accctttgtg acagcagaga acaagtttga agctttggca gcacatgacg 300  
cttttgttga gagcagtggt gccgtaaata caatttctgc atctcttatg aagatagcaa 360  
acgacatacg tttgctagga agtggtcctc ggtgtggtct tggatgaacta atcctaccag 420  
aaaatgagcc tgggagcagc attatgcctg gg 452

<210> 29937

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C10

<400> 29937

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tttttgaaac tgtcattgca aggcttccag ttgctgcaat ttttcgattc cgcactgtct 180  
gccgaaagtg gtcttctctt ttgggctcag acagtttctc tcatcagtac tctgaagctc 240  
cacgtgggct accatggttc tatacaatca cccatgagaa cgcaacaac aatgttgcaa 300  
tgtatgatcc ttgctgaag aaatggcacc acccatccgt tcctctcact cctacaaaga 360  
tagttattcc agtggcatct gtgggtggcc ttgtatgttt attggatctg agccacatga 420  
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<210> 29938

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C11

<400> 29938

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aacgggcgca actgaagatg cagctgttac tgatgcagct catacaactg catgtgacat 120  
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atgacagtga aaggagtacc tatacgtgct catacagcag cctcatgggc ttaatgatcc 240  
tgaccacagt gcacaaattg aagatggagt tcagctacac caacatcatc aaagatctca 300  
agatagatga ctgctgcaat gggacattag ttcatgaccc agaacttggg acaggtcatt 360  
cagatacata gtgatca 377

<210> 29939  
<211> 429  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C12

<400> 29939

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cagctgcggt cgttcgtgga ggtgccggcg ggctcccact tccccatcca gaacctgccc 180  
ttcgggggtct tccgccggcg ggggggtgcag ggcgaggctc cgcgccccgc ggtggccatc 240  
ggtgacttcg cgctcgacct cgccggcgct gccgacgcgg ggctcttcga cgggccccgcg 300  
ctctccggct ccccgctgtg tcaccaggag acgctcaaca tgttcttggg gatgggcccg 360  
ccgtcgtgga gggaggcgcg cgccacgcta cagaaaatcc tatcagccga cgagccccgc 420  
ttgcgtgac 429

<210> 29940  
<211> 453  
<212> DNA  
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<223> Clone ID: LIB3067-057-Q1-K1-C2

<400> 29940

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cccagaaggc tctagcgacc ccggcgctct gagtgtgtg ctgccggcgg cgagatccag 180

gagctgcctg ccattggtgaa ggacagcgcc tactacgacg tcctaggggt cagcgtcgac 240  
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 aagaatcccg ggaaccctga cgccgcactc aagttccagg aacttggata ggcctatcaa 360  
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 taagataaca tgggtgatcc tgcttctgtc ttt 453

<210> 29941  
 <211> 260  
 <212> DNA  
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<223> Clone ID: LIB3067-057-Q1-K1-C3

<400> 29941

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 taggggtggc cgcagctcaa acgcctgggg ctactttcta aaccttaaca aagccacagg 180  
 aaacccggtt ctggtgtgca tgggtggccgg aaggttcgcg tacgagatcg agaagctgtc 240  
 ggacgaagag tccgtgaact 260

<210> 29942  
 <211> 210  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 ttgcaaagtt ccttcgtaat ctcgaaagtt cctggcgaga aggttcctag gagcaattac 180  
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<210> 29943  
 <211> 330  
 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C5

<400> 29943

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ggccccgacg tcaaacgcct gtggctactt tctcaacctt aacaaagcca caggaaaccc 120

ggttctggtg tgcattggtg ccggaagggt cgcgtacgag atcgagaagc tgtcggacga 180

agagtccgtg aacttcgtca tgtcccagct catgaacatg ctgccgcatg caactgaccc 240

ggttcagtat ctggtctcgc gctggggtag tgacccaac tcacttggtt cctactcatg 300

cgatctggtt gggagaccag ctgacctgta 330

<210> 29944

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-057-Q1-K1-C6

<400> 29944

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ctgctgagtc ctacaagacc ctaacatctc tgagcagtgt gactgcctat ggttttgatc 180

ttgtccgtgg aacccaaact cttgggcttg tcacgagtgc tggtttccct gctggaaagt 240

acctctntgc tgggtgtgtg gatggacgca acatcttggc tgatgatctt gctacatctc 300

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<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C7

<400> 29945

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 tacatccatc gcattggtcg ctctggtcgt cttgggcgca aggggtgtggc gatcaatttc 180  
 gtgcgcaagg atgacattcg tatactgaga gatatagagc agtactacag cacacaaatt 240  
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<210> 29946

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C8

<400> 29946

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 gtaaaaaatt cttaccagct aaatgctgac atgatgaact gtaatgaacc ctagagcacc 180  
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<210> 29947

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-C9

<400> 29947

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 aaccggccat gagcgctaca cgggccacct tccaaccaat gtgagtgaga taaagcctgg 180  
 ccaagatgtt accgtgacaa ctgataatgg gaagtcgttc acttgcacac tcagattcga 240  
 cactgaggtg gagcttgctt actacgacca tgggtggcatt ctaccatattg tcatcagaaa 300  
 gattgcggaa caatagattg tacaatttga gatgattgcg atgcgggtgga tcgtaattgg 360  
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<210> 29948  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-D1  
  
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 cttcggctgc ctgcacttga caaccttcta ccaatttttt caaaacgaac ttagcaccta 180  
 caaacacgta cttgattccc atattatcct caatcttcac acacaaaatt cacaagactt 240  
 ctgattaaga accttctaaa ctgatgatgt catacctaac gcacatgctg gcataaacag 300  
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<210> 29949  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-B3  
  
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 taatagtga tccccactct aagaaaaaag tgattcccc cgtcattgta ctacaactca 180  
 agccgagacg ccacaaggac agagtctaca tgtacttcta atataatgct tgattgattg 240  
 ttaatcccaa aggtgagatt aaaagttcct cta 273

<210> 29950  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-H5  
  
 <400> 29950  
  
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gaagctggac tgctgctggg acgatggaac cactttcagg tggcgggtgtc caccagccgc 180  
 gaatggtaag aaggctgaag cccctgttt gttcagtgtc aggcgggtca agtggagcaa 240  
 ggtcacctcg gttctgatac cgaagaaagt cgccgagttg tctgcaaaga tctgccacgc 300  
 cggcgccagg acggaagccg tcgtctgccc ggccgtcgtc ttcattgtcgg cgtggggcct 360  
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 agacac 426

<210> 29951  
 <211> 350  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H7

<400> 29951

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 tctttggctt cctgttcctg gtgttcatta tcctcatcat cacctgtcgg gagatcacga 180  
 tcgtgctgtg ctatttccaa ctgtgcagtg aggactacct gtggtggtgg aggtcctttc 240  
 tgacctcagg atcatcagca atctacctct tcctgtacgc cgggttctac ttcttacta 300  
 agctacagat cactaaagtt gtgtcaagca tggctgactt tggctacatg 350

<210> 29952  
 <211> 318  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-H8

<400> 29952

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 cttcactctt aagactccag gccctgggta cacatgtggg cgtgctattg ttggcaggcc 180  
 aacaaagttt ttcactgcgg atgggcgcag ggtaacccaa gctctaataa catggaatgt 240

gacctgcaca tattcccaat ttcttgetca gaagactccg tntgtctgtg tatctctctc 300  
atcatttttaa taatgaca 318

<210> 29953  
<211> 302  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H9

<400> 29953

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gtattctgtc ttcttttccc tgagctcagt tctatgtact tctgatagag ttaagaaaa 120  
tactatatac aaacctctc gcaatgcag aatttcctaa ctgaagaggg agggagagag 180  
agagagagaa tgttctgtt tatgtagaga tggagtccaa aatttgtgtg cctgatgagt 240  
tcttcccat atgatattaa ctgaaatagt atatcaattg aatgtattac attttaagtt 300  
tt 302

<210> 29954  
<211> 449  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-057-Q1-K1-A1

<400> 29954

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aatccccccg aatccccacc cccaagcaac acccagaaaa ggcgacaggt gccgaggctc 120  
ggggagcgat ggttgtgcgg cggctggggc gcacggggcg cgcgctgctc acgctcccca 180  
acatccggag gcgggcgtcc aactcctggg cgcgcgtctg cgacaccttc ttctctacca 240  
agcaagtgtt cgagagccac cgcacgtctt tcaccgtcgg cacctcaatc gccttcgtcc 300  
tcacggcttg ggccggttat tcaattcgcc atgtgcaaca attaaagatt gaaaggaagc 360  
ttgagtcaat tgaatcatct ctgaaggata accacaaagt tgaacatgaa gagataaaaa 420  
agatcgtcac ttncagcaat attagcgtc 449

<210> 29955  
 <211> 374  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-A10  
  
 <400> 29955  
  
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 gactcctgca agcaattcgt tgtcccaaga agacattgag gccctcacca agaggacaca 120  
 agatgggtggg acagaggtgg ttgaagcaaa ggcgggaaaa ggctctgcaa cgttgtccat 180  
 ggcatatgct ggtgctgttt ttgcagatgc atgtttgaag ggtctgaatg gagttccaga 240  
 cattgtagag tgctcttttg tgcaatcaac tgtgacagag ttgccattct ttgcctctaa 300  
 ggttcggctc ggcaagaatg gagtggaaga agtgcttggg ctgggtgagc tcaacgagtt 360  
 cgagaagagg ggct 374

<210> 29956  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-A11  
  
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 gaggacggag ggagtacatt gcacccatga gattaccctc tactgtctaa caactgaagg 120  
 agcaagcccc agccctagat acacgacaca tacaaggtaa atgccaaaag ccaagttgcc 180  
 tacacctaact actgctgaca gccaagcct accagcgaca ttacacaatc agtagcaaact 240  
 cggatatgaag actggatatc gtggcatatg ttgagcttaa tatcaagagt cgtccagaac 300  
 tcgagatgct cagtaaatgc caggaatgac tctgtatggg actttgttgc atgaaatctt 360  
 gcagtacttg ccgtactttg atgagcaccg gtcacatcc ctctttgctc ggtcaaacaa 420  
 taatatagtc agaaagatca c 441

<210> 29957  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A12

<400> 29957

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cgctgcctct cgtttctctt ttcaataatc aagatgagcc gtggtggttag tgccggtggt 120  
ggtcaaagct ctctgggtta tctctttgga agcggtgagc ccccatatac agcagtggca 180  
ccagctgcaa gtgctccacc tggtgagaaa ccatctgctg caaagactga tgccggccaag 240  
caggttgctg ctgggggttac cagccatacc aataactacc acagggctga tggtcagaac 300  
actggcaact tacttacgga ccgtccttca accaaagtcc acgctgctcc tggcggtggc 360  
tcttcctggt gctacctgtt cgggtggcaac tgatgcccg tctg 404

<210> 29958

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A2

<400> 29958

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gggcgtgcag agagtcacg tgcccgaat gggccgtagt ggagctgcac ggcgtggtgc 120  
agacgcaggc ctcttcgcc ggcgacattc ggggactcca catcggtcgc ctctgctcct 180  
ccccttgccc agcctccgtc tcgtccaagg cagggttcac cttcacggtg gggtagaacg 240  
agctcgctcg cgcaaaagtg acgctcaaga agcctctgct ggtgctcagg aagaagaatg 300  
ttaatgctgg tgc 313

<210> 29959

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A5

<400> 29959

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gttgcaagat accgtacgaa atatcagggt ctatatatgc ttggaagttg gaacaatggc 120

tgctcagaag ggtaaggctcg gaatagtcct ggacttcaac tgtgacgagg ctcttacaaa 180  
ctcacctgat gaccaagcat catcccaaag agcctgggac ttctacattg gctggaatgt 240  
tgatccattg ataaacggac tctattcaca gataatgcaa gatctcgtgt aggagatgct 300  
gcctagggttc acttctgagc ttgctaattct ggtgaatggc tcggcagact acatcgttat 360  
caacgagtac acatccatct acgttaaggg gcag 394

<210> 29960

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A6

<400> 29960

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aaaaaaaaata aaaaaaaagg caaccctttt aaaaaaatcc acaccttact taccatcca 120  
ttcaacatca taacattttc tataatttta cctaaattta atttacttgc cttactttta 180  
caacatctta acttgtaaaa cccttacatt acccaactta aatacctttc ataacatccc 240  
cctttttcca gcttgccata tatccaaaat tcccaaact atcgtccttt ccaacaat 298

<210> 29961

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-A9

<400> 29961

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cggactcgtg ggcggacacg tgggccgacg catgagcgga cacgtgggtg actaaggagc 120  
tggtagctag ttcacacgaa atgtggactg ttaggaaagg acgctatctg ggtaggctgc 180  
tgcgcaacac attgcgcaag accgcacaga gtctgagcta tcacaaagca gctagtaacg 240  
ctgaatatga agacgacctg attggacatg ctgttcgtta gaggtagagg aagaccgaga 300  
tttctg 306



<210> 29962  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-B10  
  
 <400> 29962  
  
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 gtagaggatt cttatcatgc gttttgtatt ctgacctttg cttgttgtga gacccagtcc 180  
 acatgaagat gtttttttta tttgttattg atactttcac gacgttgaag catacaatta 240  
 tatgcatcaa gggtgtcaaa gaaaggtcca gcatgagaaa gctgaccaa tggtgcgcca 300  
 aaaaaaata tatataacaa aaataagaaa aaaaaattaa taaatagaaa atgctatata 360  
 caaatgccta aaaccaactc atcaatattg aggaatatta aaaaaaaaaag ggctgccttt 420  
 ttag 424

<210> 29963  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-057-Q1-K1-B11  
  
 <400> 29963  
  
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 gggcgactcc gtcactcttc ctcttcggtt ccatttcaag atccctgcag ccgtccgttc 120  
 atccatccat ccacccatcc gttaagagga gaggggaagc cggccggccg gccggccggt 180  
 ggagcggaga tgagggggca gacagagaca ggcctgtggc gaggaggcga cggcgctgcg 240  
 gcgtggtggg tggccgtggt ggccctgcag ctgggccatt cactgagccg cgcgcgggct 300  
 gggctgctgg agtccaaccc gggcctggcc tacaacttct accagagcag ctgccccagc 360  
 gcggagtcca tcgtccggag cgtcacctgg gcgcaagtc 399

<210> 29964  
 <211> 340  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H4

<400> 29964

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aattaatggg atgaagggga ttttggatcc tgtcaaatgc caatgtggac tggagtacaa 120  
cttaaaactt gatggtgaag ccatggatat aagctaagca agaacgacca catacacaga 180  
tgcccatctc caccagattt cgtgcatttt agatctgtac agtgtgagag atggattatt 240  
ctttggaagg tacagaatct tctcgcatgt ataccggtgg atgctttggg cagaacttga 300  
cagcgtcatc gcgaataata tagattctga atgtagacct 340

<210> 29965

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B12

<400> 29965

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tgctgatgct gcatgttcaa tgtatacttt gtctctaaat cgagaagcta caccaaactc 120  
tattgtgtca tctgagagat cagtcaagtc aatgactgaa cagcagttag atgaaaacag 180  
tgaaaagcat gaagaaaata gtggaaggct tgaagaacat ggtggaaatc ctgttcaaac 240  
ttcctatgat caaattgtta atggctgcag tggaagaggg aatagaaaat tctgcagtgg 300  
aagaaggaaa ggaaaaggaa aatgataagg 330

<210> 29966

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B2

<400> 29966

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agctcgtcat cgtcggcgat ggtggaactg gtaaaactac atttgtgaag aggcatctca 180

ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagtccat ccgttggatt 240  
 tcaccactaa ctgtggtaag atcaggttct actgctggga taccgcaggg caagagaagt 300  
 ttggtggcct cagggatgga tactatatcc atggccagtg tgcgatcatc atgtttgatg 360  
 taacctcaag gcttacttac aagaatgttc ctacatggca tatggacctg tgcagggctc 420  
 gtgaaaac 428

<210> 29967  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F9

<400> 29967

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 ggtgacccta gatatacaacc gatgcacgat ccatctcgat cctgtgatcg aataccggcg 120  
 taggtactac taataaagtc aggccccgtc aaatgcttta catggtgatt gaagtctgga 180  
 gcttctcagc accaccatat attgtgttca gttcttgtgt ttattgccat agctaccttt 240  
 tttttctctg atctacgagc tagacgtagc tttgtgcttg gagattccac tactatgttt 300  
 cctctgtcct gtgtatgctt taacggagat gcacgttgta cccgtggtaa tatatataaa 360  
 tttgcgttgt 370

<210> 29968  
 <211> 444  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-G1

<400> 29968

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 gccaaattgt gggagtacag catgtgtagc attagtcaga aataggcaac tcgttggtggc 180  
 aaatgctggt gactccccgt gcgtcatctc aaggaatggc caggcataca atttgtcaag 240  
 agaccataaa ccagagcttg aggcagagag agaaaggata caaagtgccg ggggttacat 300

taaaatgggg cgtgtaaag gaagtttaaa tttgtcaaga gctattggag acatggagct 360  
 taaacaaaac aagttcttgt cccctggata gcaaattttg acccgaaacc ctgacataaa 420  
 cattgtcgag ctatgtgacg acga 444

<210> 29969  
 <211> 373  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-056-Q1-K1-G10  
 <400> 29969

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 ggtgagatga aaggttccgc tatcactgga cctatcgga aggagtgtgc tgatctttgg 180  
 cctaggattg ctacgcgacg aaacgctatc gtttgagagc ttggtggaat atgttcagac 240  
 ttctatatga tcactttatt atcagttgct aagagggcta ttgggcttaa tgggcccttt 300  
 atgtttgttc actcaatttt gtagtaaaca gaatttgga taccaagggg atctatatat 360  
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<210> 29970  
 <211> 298  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-056-Q1-K1-G11  
 <400> 29970

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 tcctaagcca ttcaccattg aggaccgccc gggcgagcag tgggcccgcg tgcgccgcgt 180  
 gttccctgcg gccgaggggg aggaagagga ggtcagggtg gacgccacgt tggtcgacgg 240  
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<210> 29971

<211> 255  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-G12  
  
 <400> 29971  
  
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 ggaaaaggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa agaaagaaaa aaaaaaatat aaaaaaaaaa aaaaaaagta 180  
 cttgcgagcc aataaatata tataaaatgg cctaaatgca aaaaaacagc ccctggtaaa 240  
 acaagggcac aacag 255

<210> 29972  
 <211> 403  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-056-Q1-K1-G2  
  
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 acctgagtag aaatagttct agaggcatac ggatgtatca ttcagtgaac ctctcgctga 180  
 agttagcttc gctccacacg gtgcaggcca ttcttgggaa gttaggtata ggatcaagat 240  
 tcaccattta tgttatgtta gctgtttacaa atagcaagca taaactgctg tcgtcgatga 300  
 aaatggctng tgtgtgtatg tcttttcggt gttccgtgtc acagatcatt gtacagaaac 360  
 gaacaatagt gctgaataaa gtgatctgag tgcaattttg etc 403

<210> 29973  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-G3  
  
 <400> 29973  
  
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 cgctgactac cagaacgaag ctgaagttgg tgacgcgctc gcagaggcat tccagaccgg 300  
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 tgtgcttgaa gcctgcaagg ac 382

<210> 29974

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-G4

<400> 29974

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 gaccgtgacc gtgttggtga agccagagat gagctccaca ggatgctgaa cgaggatgag 180  
 ctacgtgatg ctgtgctgct tgtttttgcc aacaagcaag atcttcccaa tgccatgaat 240  
 gctgctgaga ttactgacaa gcttggatta cactccctgc gccagcgaca ctggtacatn 300  
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<210> 29975

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-G5

<400> 29975

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 actcgttatg aagaccgtgt gcgtgctgat cctgggctgg atcctgtttg actcggtcct 180  
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256

<210> 29976

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 29976

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gcgcgcatcc agatctggct attcgagcag aaggacctcc ggattgaggg tcgcattatc 180

ggattcgatg agtacatgaa cttggtcctc gaagacgctg aggaaatcaa cgtcaagaaa 240

aacactagga aatcactggg ccggatactc ctcaaagggtg acaatataac tttgatgatg 300

aacagtggca agtgaagatt cttatggcaa gaacgatgtc tgggtgctcgc ttcgattatc 360

tgggacacaa tgtacttcat tccatcgtnc agacttaa at gatgtatc 408

<210> 29977

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-G7

<400> 29977

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aatcagttgt tacgttcctc ccagattatg ggttcctctc acaaggagaa cagaattatc 300

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<210> 29978

<211> 422

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-G8  
  
 <400> 29978  
  
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 tgttggtacaa agtgataaga aagttgttga tagaatacgt gaaagcatca aagatagcat 180  
 ccaccggaaa tcactcgtga aagaattccg attggatgaa cttcctcaac taagtgtctaa 240  
 gtttgataag ttgctaaatc tactgaagga atatgatgag aacgatcctg taaatagaaa 300  
 cacacatatt gccaatctgt tgcaggatat aatggaaatc atcacacatg atattatgaa 360  
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 tc 422

<210> 29979  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-H1  
  
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 tccttgagat atctaagctg atgtctcgaa tagttgagag cagccagtca gaaccccaag 240  
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 aaacgccagc attacgtcga tacccttaag gtttcttacg cagcttgacg agaggttcag 360  
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<210> 29980  
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 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3067-056-Q1-K1-H10

<400> 29980

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaca aaaaagaaaa aaaaaaaaaa aaaaagaaaa 180  
tagagagaga gaattatctg gtacatgtac acatgagcaa cataacttgt gtaaatgatg 240  
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<210> 29981

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-H11

<400> 29981

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aagcccgccg gcgagatccg cgcggcaggc ggacggggcc gctcgaccgc ctctgtgccg 120  
tgcgcgctt cccacctctt ccgttctccg ctccccgcgc ccgcgaaggc gaattgctga 180  
attgagggcg gtggctcgtg cttgatthtg atthtggggg tcggtthtcag thccaattca 240  
tgacggcgcg gccgggggtg gtgggtgaagg tggcgcatgg ctcggcgggn gngtggcagc 300  
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<210> 29982

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 29982

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atctgagggc acgatagatg gaggcggcgg gatctctcgg thtgcagtcc tgctccacct 120  
cgatggatga tgtctctcgc ctgataatta thggatcaat thcgataatt attagtagat 180

ctatgagata tgccgcctgg aagaggcgag gtaagctgca gcatgtaaaa aagagaaaaa 240  
 agatgtgaca tcttagagga ggaggccttt gccatgatgg gtgcgctcgc atggcaggcc 300  
 aggcaataat aaaaagatga ttattgcgtg ccggggggagg agatcgcacg gnggttgatg 360  
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<210> 29983  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H2

<400> 29983

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atgacaaatc aaactaaaac 180  
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<210> 29984  
 <211> 362  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H3

<400> 29984

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 ctatactgtc gaatcacatg acatatcttc cggatggaaa ttccactggc acaagtcctt 180  
 gggttctgtt ttggtaacaa tgggtgtggag ctatttatag tacgctaact ctattgtaca 240  
 acacgaacac gcacttaccg aaattcattt gattcgtatt cttttcacia aaaagaatat 300  
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<210> 29985  
 <211> 326

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-F8  
  
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 tgtcccagaa ttataattat tcacttcaac tttctgcgtc tgctgagtaa ggatgtacca 180  
 gtgttggagc tgggtcatta tgggatttga gctcacttgg tttctgcgtg aatgtcaact 240  
 gctgcagttt ttttggtcac tggatgactg ctgctgctgg ctggtcaggt ttgatatcga 300  
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<210> 29986  
 <211> 378  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-E12  
  
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 ggcattggagg ggaaggagga ggacgtccgc ctgggcgcca acaagttctc ggagcgccag 120  
 cccatcggca cggcggcgca gggcacggac gacaaggact acaaggagcc cccgcccggc 180  
 ccgctcttcg agcccgggga gctcaagtcc tggctcctct accgcgccgg catcgccgag 240  
 ttcgtcgcca ccttctctt cctctacatc tccatcctca ccgtcatggg cgtctccaag 300  
 tccacctcca agtgcgccac cgtcggcatc caaggcatcg cctggtcctt cggggcatga 360  
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<210> 29987  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-E2  
  
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tgctgcgtac agtacgtagt accatggcga agaaagtggc cactctgctg gccctcaacc 120  
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 caggcggcgg tggcgggtggc ggtggaggat ctggtggtgg tgggtggtgga agcgggtgggg 240  
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<210> 29988  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E3

<400> 29988

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 tgcattggat atccttagcc ggagagggcg ctggtggtgt agacgaggag ggcgccgccg 180  
 ccgaggatcc cagcgagggt gacggcccag atcagaagcc cagtgggttcc accgacgtag 240  
 acgtcgccgg tgggagacca gtcacccctg ttgtagattg ggctgtatcc gtcgacgttc 300  
 gcgccgtact tgtcgacgaa ctggtacacg cccttgccct tgccctttct cccgttggcg 360  
 tcgacatcga cggtcaggcc accccaatc ccgtagggct tgtcgggtctt gatcttcttc 420  
 t 421

<210> 29989  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E4

<400> 29989

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 tgagatatat catgtgggcc gtactacgga tgctaccatt catgctatta ttcaaattct 180  
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 gc 242

<210> 29990  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E5

<400> 29990

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cagactcgga taagaattct aacaaggctc ggaagggtga agctatcgca tgaggttaat 120
ttaggtacct tagctcgact aaagaagtaa catgttatgc cagcatgac gacttcagta 180
ctctccaagt ttctagaatc gacttgtttt ttagctatcg gtttcatttt ggtcgatttg 240
ccaccttatt cgatgatcgt tccttagcta taatgctttt gtaatggctt tactgtgatg 300
cgaaggetca cccgatggcg tgtaatttga gcacaccaag cttatgcttt cttttcgaaa 360
aggtgggagc ctttctattc aaaaaaatt gggatgtagg gcctgaattt tttttttt 418
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<210> 29991  
 <211> 374  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E6

<400> 29991

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tttgagtctg ggagctggac gtttcattag ccattgtgat tacctgtcct gcaattgtca 180
tatgggacag tctgtttgat attgaaaaca atgtggagtg tgcctagcaa tcccatgacc 240
tgtgtctcctg aaagcacctc gcagaggaag aatctaaatt cgtgtattgt tgtccgttga 300
agtgcctaa cttgtggcaa gagaaatgca gctgatgtat gcagactctc cagttgacat 360
tgagttctta cctg 374
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<210> 29992  
 <211> 365  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-056-Q1-K1-E7

<400> 29992

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gactcaccgc cgccctcccg cccctcacct gcccgcggca gtgtcggagt aaaccctacc  120
ggacctatcg tcacgcgact gcgggagttg cttgcttctt ctgccgctct ctcgctccgt  180
cccttccgcc catggagacc tcgctgcgct tgcgcagtg ggcgggcctc cgcattcacg  240
ccaaggagaa gctgccccct gccacagct cgctgctgca ggctcatgcg gagctcgacc  300
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tctac                                     365
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<210> 29993  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E8

<400> 29993

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tggaactcga tcaaggagca gcagatccgg cggaagcaag gcaagtcggt gagcgggaag  120
ctggacgtga acgccttcga gtacctccag gagaagtact cccgcgagaa gatgagcatc  180
cggcacagcg tgggcgggcg cggcgatcgt cgcgcgacgc agtggctggg ctaggccgtg  240
cgtgtgtgtg atggtttgtg cctttggctt catcagcgac acggcgtggg agttgtttgt  300
gcttggtttt tcgtagagga gaggagagag ttgacatgat ctttcccgt gcatgtgatg  360
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<210> 29994  
<211> 427  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-056-Q1-K1-E9

<400> 29994

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ctagcagcag cactcttccg gccagtggaa atgtgtcagt cacacaaagc ctgagtgtca 180  
ctaacaacca gcatgggcag aaaccacttg caatgcgtat ccggatgtct taaaaagtga 240  
atggtgaaga caggctggag caagggcaaa tcagcaactt tccttctggg ttgtagtgcc 300  
acctgtgtct atgnggttgg ggttgctctt tcagcgtgct acaggcaagg cgtttgtatt 360  
cttgttcttg aacattttca cttctgcttg cctgctaata agttgtgtac actggtagtt 420  
gggttttg 427

<210> 29995  
<211> 381  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 29995

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cgaatacact tccgtcgagg gctttgggtc agtgacacag cgtgcaagat ggttcaacga 180  
tatgatcaat gtggtgttct cctcgaaggc gcttgttggc ggggcgggtg cgtattttct 240  
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caaccctaac aaattctttc c 381

<210> 29996  
<211> 431  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-056-Q1-K1-F11  
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gccgctagcg ccggcgcccg gcggcggtat ggaggctggt ggcgaggagt tcgcatcg 120  
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 gggagacgac cctctcgatc ctgccgggtg catgctggac cttaaactca tttatgcccc 360  
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<210> 29997

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F12

<400> 29997

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 cttgcccaca aagcgcggcc ccaatgttgc ccgggacacc ggcagattaa aaaaccacc 180  
 gttttcgccc cggcaccgtc tcgctccggg agatacgcaa gtaccagaag agcacggagc 240  
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<210> 29998

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F2

<400> 29998

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 tcgagacaac agcatgctgg cgccaagttt gagggcagca ttgggctact atcagagaaa 180  
 ccaaataatc ccatacctaa ctgttcattt ggaagttact catcatgaca agtgccctgaa 240  
 atttttcctc tttcctgtta cttgtgtgca gaacattatg tagctgtaga tatattgatt 300



atggaaagat gaagttgcc aattggcctg aggagattcc tttctccagc caggaaaaat 360  
tctgaacatc aaggagtttc tggttgcaag tttcactatt taaaagcagg tatgttgctt 420  
gtg 423

<210> 29999  
<211> 441  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-056-Q1-K1-F3  
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gactcgttgc agtaaccagg tgcaagctga gagaatattg gaccttcaga aacggcttag 180  
cttgatggac aggaaagcag caaaagacaa tggggcaagt gttaatggcg aacctattac 240  
gagcacaacc ccagttgata agctgagatc acagttggat gatgctgtag cgagcgagtg 300  
ccccttctgc ggtgatttga tgatcaagga gatttcacag ccgttcattc ttccccaaaa 360  
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<210> 30000  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-056-Q1-K1-F4  
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373

<210> 30001

<211> 411

<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-F6

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tggtgggtgag cagaccatcc ttgaagcaga tgttggttctt gtctctgctg gcagaagccc 180

atttacttct gggattgggc ttgaaactct tgggtgttgag acagacaagg ctggcaggat 240

ccttgttgat aagcgcttca tgaccaatgt gaagggagtc tatgcaatcg gngatgccat 300

ccctgggtccc atgcttgccc ataaagctga agaggatggg gtgcgatgog tagaattcat 360

tgcttgaaaa gaaggccatg ttgactatgg cacaagttct ggtgtggtct a 411

<210> 30002

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-F7

<400> 30002

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cgatgaagtg ctcccgtagc ttgtagtggg ctattcacc cccccccccc ctctaggcga 120

ctatcaattg gtatcaaagc ccggtgcttc attagagcct aaccgctcga agtgatgtcg 180

ggagatcacg ccaagaagga gatggagacc ggcgaaaagg ttctagatcg cga 233

<210> 30003

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E11

<400> 30003

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agattgagct ggccgaggtc gaaatgcccc gcctcatggc gtgccgcgcc gagttcggcc 180  
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tcttctccac gcaggaccac gccgtcgtcg tcatcgcgcg cgactcggcc gccgtgttcg 360  
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<210> 30004

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C7

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tgccttgttc ttccaggcct atgcgtattg gtcctgcagc aagtaggaaa aatacaggag 180  
gtgttgttca agagagagta ccaaattctc aaggagctca gtctgagaat gatcctaaca 240  
ataccactat atttgttggg gggcttgacc ccaatgtcac tgaagatacc ctaaaacaag 300  
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<210> 30005

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-C8

<400> 30005

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gcggcaggtg gtggcgggct tcctcaccct ctccatgttc gtcattgctc gcaacatgat 180  
caagcacgac cacttctctc ccgtcgccga ggagctgggc ttggaggcaa caggtgtggt 240

gtcgaacaca aggaagcttg acaacaatgc tgaaatgagc agcgtcgata cggctggagt 300  
ggaagacctg atggacgctg tcgaggaagt taaaccttgc tggaccaaac caagttcaaa 360  
aaaaatcagc cgtctaattg ttttggtaca ttctccttga ctatgggccc tgagtatcac 420  
atctctcaga tcac 434

<210> 30006  
<211> 425  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-056-Q1-K1-C9  
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ctgaatggaa gggctcttcta aaaggctact gggaacgatt cagcaaatat tgtgcagatg 240  
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tcttccttaa tgttgacaca gacaatagaa ttgcccctag ttgttctgaa ggaaccttga 360  
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gcaag 425

<210> 30007  
<211> 293  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tgacatctta gtatattaca cgagtaaagg aacaaaggag tgcgggaagt gggccagata 180  
agcaaacaat tcttttgaat ccatgtatca tcacgcagac atcttagacg ctaggaccga 240

gncttgccctc aaatgaaagc cgatgaagaa aatggacagg aacagaccat aat 293

<210> 30008

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-056-Q1-K1-D11

<400> 30008

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aggaccgtct cctcgccctgc tcatccgccg ctgcttccct tctctgggct cggagaaccg 120

gagagaagcg cgcgcggcca tggcgccag cgcctctcgg ttcacaaagt gcgtcacggc 180

cggcgacggc gccgtgggca agacatgtat gctcatctgc tacaccagca acaagttccc 240

cactgactac atacctacgg tgttcgacaa tttcagtgc aatgtagttg tggatggcac 300

cactgtgaaa tttgggcctt tgggataccg ctgggcagga agattacaac cgnctgagggc 360

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gctatgaaga tatcatg 437

<210> 30009

<211> 422

<212> DNA

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<400> 30009

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cgatcaaccg gtacatcgcc agcaagtacg cgtcggaggc cacggacctg ctccccgcga 180

cggcgctcggc ggcaagctg gaggtgtggc tggaggtgga gtcgcaccac ttccaccga 240

acgcgtcgcc gctggtgttc cagctgctcg tgaggccgct cctggggcggc gccccgcacg 300

cggcggtggt ggagaagcac gcggagcagc tcgccaaggt gtcgcacgtg tacgaggcgc 360

acctggcccc caacaagtac ctcgccgggg acgagttcac gtcgcgcgac gcccaaccacg 420

cg 422

<210> 30010  
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 <223> Clone ID: LIB3067-056-Q1-K1-D3  
  
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gcaggggggag gagatgaagc tgaagcagct ggagggcctc ttgggtggcc tgaccagtt  180
ctccgacccc aagctggagc tggagcagta tgcgacgggc cctcacatcg cgtcgcggat  240
gctctacatg acatgttctt ggtattgata ttgaccaca gtcacttgaa cttgctcaag  300
aaaatgctgc tgatctggag ctggacatcg atttagtttg gtctgacata aagaacttaa  360
atctgaaagg gaagagcaag tgggaagttt tgtccttagc tgaccaaaca agttcggcaa  420
catatacctc ttttg                                           435
  
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<210> 30011  
 <211> 342  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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ggttatttag gtgataacga tttgggggtcc ggcacattca ccagtttggc cagcttttag  180
ccttgcttct agcccatggc atacttctgt gtccaggagc gtgcggtgga ctcatacttg  240
gccctgtcgg tcttgtagat gtgagcaatc tcagggacaa gaggatcatc anggtttggg  300
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<210> 30012  
 <211> 348  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-D5

<400> 30012

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ggcggagcgg aggtagagca tagggagtga ataaccgcta ccttatttca tttctatgat 180

gtatctatct aatttgggtcc ttccctgata atgcacgacc cgtagtggtta aaaaaaaaaa 240

gaacatgaaa ttgaaataga aattgaccca aagataattg aacattgcat aagaaaatgc 300

taattaaact ggaacttgac ataaaaatta aaaaaggggg ggccccctt 348

<210> 30013

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-D7

<400> 30013

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ggttcagtgg aagaaatatt cgaggaggga tctgcaatgt tggaagaaag gttgggaagt 120

aattttccac caaaagcaaa tctgcctcca tttcgctgtg caatctgccca agtggaccaa 180

gagccattcg aaggtttaat gacggacaat gtaggtggct gctgctcaac cccatcaaca 240

ccatgggggtg gtccttatct ttgctcacgc tgtaagaaaa agaaggacgc gatggaaggt 300

aaacgatcga atcggtcaac gacgtgcaag tgaaagttct gataggaatac actgggactg 360

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<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-D8

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ccttgatgaa ccaatatgtg aacaagaagt tcagcaatca gtacaaggct acgatcggcg 120  
 cggatttcct caccaaggag gtgcagttcg aggacaggct cttcactctg caaatatggg 180  
 acactgctgg ccaggaaagg ttccagagtc tcggcgttgc attctaccgg ggagcagatt 240  
 gttgtgtcct agtctatgat gttaattcta tgaaatcatt tgacaacctg aataactggc 300  
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 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 30015

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 gggagagacg cagaggagac agctgctgcc tggctgagac gatggccgga ggcggcgacc 180  
 actcccagac gaacggaggc cacgtcgacc agagggcctt ggaggagggc aggaaggagg 240  
 agttcgctga ccagggctgc gccgccatgg tcgtctccgt ccattttatc cagaagatca 300  
 tcgcgagat cttcggcacc tacttcctga tggtcgcggg gtgcggcgcg gtgacgatca 360  
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<210> 30016  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-E1

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 acaaattcct tcgcattcca tgcaccacct tcatgttccc cacatcaaaa tctgggtgaa 180  
 attccgagat ccatcacata tcagtacata atatgatgat cccacagctg gagattagac 240



agagatcttt cgaagatgct agctgcaagc tccaactgct atgatatgga caatgccaaa 300  
 gggacaaaata aaatgcaaca cgaaggaaaa gatgaacagt actgggtaca cccc 354

<210> 30017  
 <211> 424  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-056-Q1-K1-E10  
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 ttttcacaac ataaactcta cactgccgcc tccacctgtt ctgaatcgtc tgcctcctcc 180  
 agctattcct tcagcagtta ccatcaatcc accagcaagt tcaagtcaag caattagctt 240  
 tccaactggc cgaaccagcg gcttgaacta ttaccagacc ctgatccatc agcatggagg 300  
 ggagaggcat gagccacagc cacttcaaca gcatggaatg cactttccaa tgcacatcgc 360  
 cactgtcgct tcccagtcta gcgccactga tattgtcagc agtgggtacta tgccagctag 420  
 ggat 424

<210> 30018  
 <211> 299  
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 gaaagacgtg ccgacttcta taaccaacca tgggttgaag acgccgttat aagatacttg 180  
 aaccgcaaac cggctaacga gggcctaggt ggtggtgctg gtgggttcttg aagcgtggat 240  
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<210> 30019  
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<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 agcattgact ctgcttctcg caagcagaga cccaagtcta cctgcgcaag gcgctctagt 180  
 tgcccccggt gttgctctac ttacgtctc cacgggactc gccgtatggc ccctagtggc 240  
 gtacatgaga aagatatggc gtatactgct aaaatagtat tagcacaata tatatatagt 300  
 gtaatagaag aaacatgcaa tgcgagc 327

<210> 30020  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
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 gccgacgccg gagcgtccaa gacctaccgc cagcaggctg gcaccgtccg taagaacggc 180  
 ttcacgtcga tcaagaaccg cccctgcaag gttgtggagg tttctacctc aaagactggc 240  
 aagcatggcc atgccaaatg ccactttggt gccatagaca tattcaacgg gaaaaagctc 300  
 gaagatattg atccttcgtc acacaactgt gatattccgc atgtgaaccg tactgagtac 360  
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 <213> Zea mays  
  
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 <211> 373  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 30022

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 ggcttccaca ttgttcaagg accagttggt ttagggggcg ctttctagcg gagggtcgtg 180  
 ttttcacaga tcacctctca ggggggtttat ctgttttttg agcctcggct gccatcactg 240  
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<210> 30023  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-B3  
  
 <400> 30023

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 ccacggacat cggactaaaa tctgcgcaat ccataaccat ttgttacttg gaagggaat 240  
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 aaaataagct agcattgggt aatttatctc agttgcatgc gaggttgcaat cttagggtac 360  
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t

421

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<211> 228  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B5

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<211> 371  
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<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B6

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gaaatctcat gttagtttga ctgctgatct ttggctctct aacaaaaacc ttggatatct 180  
tggtgtaaca gcacatttca ttagtgaaga ttttgagttg cacaaaaaga ttattgcatt 240  
caagaagatt tccttccac atacatctta tgctgtgcaa gatggtatta cctcttgttt 300  
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<212> DNA  
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<223> Clone ID: LIB3067-056-Q1-K1-B7

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa cagggaacc aaaacaaagg 180  
 aaccaacatc tgtaacacct ccttgaaaat caaaaccctt ttgatacgcc caaaaaaat 240  
 aaaacacaag cccggagttt caacccaaat aaattgaaaa ctctttatgg aaaaaaacc 300  
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<210> 30027

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B8

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 gaagtcggtg tcgcggtccg ccagggccgg gctgcagttc cccgtcagcc gcgtcgggtg 180  
 gtacctcaaa aagggccggt acgcgcagcg tgtaggcacg ggtgcccccg tctacctcgc 240  
 cgccgtcctg gagtacctcg cggccgaggt gctcgagctc gccggcaacg cggcaaggga 300  
 caataagaag acgcgcatca tccgcgcga cgtgctcctc gccatccgca acgacgagga 360  
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<210> 30028

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-B9

<400> 30028

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 ttggccatgc aaggtctgcc tcttccaatt catggagatg gctccaacgt caggagctac 180  
 ctgtactgtg aggatgtggc cgaagctttt gaggtgggtc ttcacaaagg agaagttgga 240

catgtgtata atattggtac tgtgaaggag aggagggtga ttgatgtggc caaggacata 300  
 tgcaagctct ttggcttggga tactgagaaa gtcacaaagt ttgttgagaa caggcccttc 360  
 aatgaccaga ggtacttctt agatgatcag aatctaaaga gattgggatg ggcagagcgc 420  
 acac 424

<210> 30029  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-056-Q1-K1-C1  
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 tccaataaag caagtagctc cagctttaag aagctgccgc ctgttcttgt cacatgatga 300  
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 aaaaatattg gcggtgatgc agatatttat tgatttggtc tggtaattaa taagaaccct 180  
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 <213> Zea mays  
  
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 ggaatttctg attgggtgca tggatgatct ttcattcagag cagaacaagt tccaatatta 240  
 taaccgcaat ctctcaagac aacagtcaca gcagcaggca tggcttcaaa agagaaggca 300  
 ggagaacatg gcgaggaaag cagctggtga ggagccacta ccagaagaag atccatccaa 360  
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 <213> Zea mays  
  
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 acaaccaata tgatatagtg aaattctgta aaaatgaggg cttgttctt ctactctgatg 180  
 aggtatatca agagaacatc tatgttgaca acaagaaatt taactctttc aagaagattg 240  
 caagatccat gggatacggc gaggatgatc tccctctagt atcatttcag tctgtctcca 300  
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<210> 30033  
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<212> DNA  
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 aatggctgtt agatgctcct gtactgctct tttccctcta gtcttctgtt ttatgatctg 300  
 tcagctttgc tatggcactg taactgatat ccaatgtctg aagaagctga aggcattcagt 360  
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<210> 30034  
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 <212> DNA  
 <213> Zea mays  
  
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<210> 30035  
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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations



<223> Clone ID: LIB3067-056-Q1-K1-A9

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cggaacctgg tgaacctcta cttcgacatg gccttcccgt tcacggacgc gcagatcagg 360  
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<210> 30036

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G12

<400> 30036

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aagagttcgc gggttgcgtc atcagtgttt accagatgga agccttggag acgtgggagc 120  
agcacgcgcg gcgtgcgtac gagctgttcg acaaggaagg aaaccgaccc atcgtgatcg 180  
aagagcttgc atcggaactg gggcttggcc cgtcggtgcc tcttcacgtt gtcctccagg 240  
actggatccg gcacgccgac gggaagctga gcttcctggg gttcataaag ctcttgacg 300  
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<210> 30037

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-G4

<400> 30037

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accgctgcgg caactccgcc tcccgccgac ccggggatcg cctgacaaca ggcagcgaaa 120  
 aggggcgag ggtttgcccg ccaagatgga ggacgtggac gtctcgcggc agctgaagca 180  
 gatgacggac ttcattccgcc aggaggccgt cgag 214

<210> 30038  
 <211> 308  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 30038

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 cttcctctcg ttttaacaa aatctgtctc tgcacggggc gtcaacggca ggcggaacca 120  
 cacgatcggc ggcggcgggc gggagcacct ggacttggcg gtggagtctg tcatacgctg 180  
 ggcaggcacg caccatcttg tgcaagcgac ctcaattgag tcctacctcg tatgctagca 240  
 ctagcaacgt ggattcgagc gccggagccg tcaacgatcg atgggtcgaa ttgttgaaaa 300  
 aaaaagaa 308

<210> 30039  
 <211> 322  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-055-Q1-K1-G9  
 <400> 30039

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 tcagacaggc agagttgttg ggacattcgg ttatatggcg ccagagtatg catcacatgg 120  
 tagtgtgtcg cctaagattg acatcttttag cttcggcgtc ttgatccttg agatcgtgac 180  
 caggagaagc aactgcagct ctgatgacca cagcactgtg aatctcctaa gtgatgtctg 240  
 ggatcactgg aagaaagga cgatgccaca aatgcttcac cggtcactgg atgagtttgc 300  
 tcgaagccaa gcgctgcgat gc 322

<210> 30040  
 <211> 214

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-055-Q1-K1-H10  
  
 <400> 30040  
  
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 cttctagaac aagactgcan ggggaggggg aagaccaagc gaaaggggaa ctagagcaag 120  
 atgggcggtg cactgctgct tgcgctccta ctcgtatctg ctgctgacgc ccctcaggta 180  
 cttggagttg gcaatggaga caatcacatg agaa 214

<210> 30041  
 <211> 228  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-055-Q1-K1-H11  
  
 <400> 30041  
  
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 acagtgcctt gctacccttg ctaagggcat tcatgacaac ttcggcattg gtgacgggtct 120  
 gataacaact gttcatgcca ttactggcac tcatactact gtttactgac cctcactcta 180  
 agactgtaga agtgagcagg ctcccatctc taacatcatt catagcag 228

<210> 30042  
 <211> 331  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-055-Q1-K1-H12  
  
 <400> 30042  
  
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 tgcccattgn gcctgtctct atatcaccat gcgtgtgagg ctctactcct aagtcgggttg 120  
 gtgtctggag ggatgggacc aaacagaaag gagcaagaac tttggggcgc aaggactgcg 180  
 ctacgatctt gagatatggt ccatatggat gtcatgataa cgatgcatgt acagaaaacc 240  
 tgtccgtgcc tattcagtaa tgntcgtgat gagtatcttc catcaaacac atgtaaaaat 300

tctaaaggta atcttgatta gtagcaaggg a

331

<210> 30043

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-H4

<400> 30043

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agatccagga tggccgtcct ccttgagacc ttgectcccc gagtgctctc ggtgagctac 120

tttgtttcga tttatcagga aatccgtttg cttcatgttg tgcaggctca tatctgattg 180

ctggattcgg caaaccgcgc ttggatcctg tatcgatctg gagaaatcgc gaagtcgctc 240

tcgttcgggtt cggagcggat ctgaggcgac gatagatgga ggcggcggga tctctcggtc 300

tgcagtctcg ctccacctcg atggatgatg tctctgcgct gataattatt ggatcaattt 360

cgataattat tagtagatct atga 384

<210> 30044

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-H5

<400> 30044

agaacaaaaa aaaaaaaaaa aaaaaatttt aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 60

aggtttttaa gaaggggg 78

<210> 30045

<211> 280

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-H6

<400> 30045

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ctctaatacac catgcgtgtg aggcctctact cctaagtcgg ttggtgtctg gagggatggg 120  
 accaaacaga aaggagcaag aactttgggg cgcaaggact gcgctacgat cttgagatat 180  
 ggtccatatg gatgtcatga taacgatgca tgtacagaaa ccttgctcgt gcctattcag 240  
 taatgtcgtt gatgagtatc ttccatcaat cacatgtaaa 280

<210> 30046

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-H9

<400> 30046

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 gatccggaac gacgaggagc ttgggaagct gctgggcggc gtgaccatcg ctcacggcgg 120  
 tgtgctcccc aatatcaacc ctgttctgct gccaagaag acggcggaga aggcgtccag 180  
 tgtggggagc aaggaggcaa agtcgccccaa gaaggccgcc aagtccccca agaaggcata 240  
 gactgactgt ctggagtgat ctgatgttta gcaggacctt gataccagta tgcggtgatg 300  
 cgtaggctgt agatgggtcg aatgtgcttg tgtgtgtatg tgccctgctg caagttgccc 360  
 tttgctattt aaaatggaag aagaaatgcc ttgtttctc 399

<210> 30047

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A11

<400> 30047

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 gtggccggtc ttcttccgcc gggagtggaa gcgcaactgg cccttctca cggggttcgc 120  
 catcaccggc ttcacatca ccaagatgac ggccaacttc accgaggagg acctcaagaa 180  
 ctccaagttc gtccaggaac acaagaagcg ctgaccaacc gggagtcgtc cgaatgcct 240  
 gcggatgaaa aattagcccc ctatttatct tgtctttttt tttatctaga tgcgtgcact 300  
 ctattgtaat aatgtaataa gaggcaattg gattgatcca acagcaaccg gcttctgatt 360

ttgatccgct tcgctgacat aatatgtgcc ttttttctg

399

<210> 30048

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A12

<400> 30048

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aggcctacag gatgaagacg ttccgaccggg gaccgggtctt cttcctccgg gagtggaaac 120  
gcaactcgca ctttcctcac gctgttcac atcaccggct tcacatcac caatatgacg 180  
accaacttca ccgaggagga cctcaagaac tccaagtctg ttcaggaaca caagaagcgc 240  
tctccaaccg ggaatcgctc aaatcgcttg ctgatgaaa attagcccgc tatttatctt 300  
gtctttattc ttatctagat gcgtgcactc tattgtaata atgcaataat aagcaattgg 360  
attgatccaa caatatccgg ctttttgatt tgatccgatt cccttacata atatgttcct 420  
cttttctt 428

<210> 30049

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A2

<400> 30049

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agggttttgt ggaggggcga tggcggcggc tgatgtggag taccgttgct tcgtcggcgg 120  
gcttgccctg gccaccagca acgagtcgct ggagaatgcc ttcgcctcct acggcgagat 180  
cctcgactcc aaggtcatca ccgaccggga gacggggagg tctcgcggtc tcggcttcgt 240  
taccttctcc tccgagaact ccatgctcga cgctatcgag aacatgaacg gcaaggagct 300  
cgacggccgt aacatcaccg ttaaccaggc ccagtcccgt ggcggtggcg gtggccgcgg 360  
tggtacggc ggctgtcgcg gc 382

<210> 30050

<211> 185  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-A3  
  
 <400> 30050  
  
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 catgtagtgg taggcccttg gccactaag cagaagaact ctaggccttt ttttttgtcc 120  
 cctcgtgact gtcttgctg gaaatttttag atagggtggaa gtggcggaac cctccgattt 180  
 gtctt 185

<210> 30051  
 <211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-055-Q1-K1-G11  
  
 <400> 30051  
  
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 gcacgactct gtgctctctc gagtgaata tctgttctct gcagaatcgg tggcgtctga 120  
 taggcgatga aggcacctt gcgtagcagt acccttcgat gcactatatt tggtatggta 180  
 ttgaaaagaa gatggcacgt accattgggt gcgagcgagc cagcatgaat aataatgagc 240  
 ttgcaaacia tgattgggtg aactaaacca acacaatttt tttttaataa atgggttcgaa 300  
 tga 303

<210> 30052  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-A6  
  
 <400> 30052  
  
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 tccggcttgc aataattgag tacatcccat tgttggcgag tcaattaggt gttgggtttt 120  
 tcgatgacaa gctggggggcg ctctgcatgc aatgggttga agacaaggtc ttttcaatca 180

gagatgctgc cgctaacaac ttgaagcgcc ttgcagaaga gtttgggtcca gagtgggcaa 240  
 tgcagcatat aatccctcaa gtgctggaga agatcaacaa cccacactat ttataccgca 300  
 tgacgattct gcaagcaatc tccttgctag ctctgtcat ggggtgcagag atcacctgtc 360  
 aaaagctgct tccagtcgtc attaattctt cgaaggacag ggtttccaac atcaagttca 420  
 at 422

<210> 30053  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-A8

<400> 30053

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 agaaggggtgt gcgaaggaaa gaagaggcgg tgggagagga gggcgacatg gagaggccgg 120  
 caccggtgag gaagtctcac atgtcgacgg cggacctgct gatctggccg gagggggcgc 180  
 cgcaggagtc gcccgcggg gccacgccgc catccaaccg ccggccgcat cagccgtcgg 240  
 aggcgctcag gaaggtggtg ttccggcgggc aggtgacgga agaggaagcc gagagcctca 300  
 acaagaggaa accatgctct gtcccaagt ggaaagagat gacaggaagc ggcataatttg 360  
 ctgctggggg cgaggctgaa gaagatgaat c 391

<210> 30054  
 <211> 371  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-D5

<400> 30054

aattagaaat tagtgatgac ctaccattga agaaatggac ataccatgat cataaggggtg 60  
 atttgctcag ttctgtcaca tctgcaaata gtgctatagc caaagaaatt aatgaagtgc 120  
 tatttaaadc attgcctgct gatacacctc gccttgattt gtttgcacat agtcaccttc 180  
 tgagccaaag gaagagtgat ttgattgtca aagaaaggct tggagtatgt aaaaccaggc 240  
 tgagggtgaa agagcagatg cttacaatga agttcaaggc atattgtcac ttgtggaaag 300



acgtccaact attttctgca aataaacagc gttcaaagtc taataagcgc actgatcaga 360  
gcaaccgaac a 371

<210> 30055  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-D6

<400> 30055

cggacgcgtg ggcggacgcg tgggcgacgc cgtgggcgca agtggttgcc tccgggggag 60  
ccacaaacac acagacacca tggccttccc agggactccg gcgaggaaga tcgtaccagg 120  
cggcttcacc gcagcacgaa ccgccgtggc cagcggcggc gctcttagct tcgacctgga 180  
cggcgccggc gactttttct ggggcctgtg gcagctcatc aaggcgaagg ccgccgaggc 240  
agcggcctac ctgcgtgcc tcttcgggc gctggcggag aaggcggacg agatcttccc 300  
gccggagacc cgctcggaga cgctccggca gtggatgcgc gtc 343

<210> 30056  
<211> 186  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-055-Q1-K1-D9

<400> 30056

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aaacttanag ctgctcagga agctcgtgct ccccgacggg tccttgctac gcacgcagct 120  
tagcgggcgg cacacacgcg actgactctt atgcgacca caacgcgacg gctagagttt 180  
gctaag 186

<210> 30057  
<211> 376  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E1

<400> 30057

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tattcagatt tatgccctgg ctttctagag gccattgtga agcattctaa tatggaacac 120  
cgactgggag ataaagaatt gtcctgttca gtttatgaaa aggacatcgc tgctgagaag 180  
ggaatggaac agagccagct cttaccaaca ttgcttattc agtactaccg cttcttattt 240  
tcggtcacat tagacttggg aaaggcaagg gagatattaa ctgtgctgca tgagcagttt 300  
aatttaacaa aaccagtgtc tgaggctgtc atccatctag agtcgatttt ttcattgcga 360  
aagcgtattg aaattt 376

<210> 30058  
<211> 435  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-055-Q1-K1-E10  
<400> 30058

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gacagataca tatatatcga tgcattattg natcattttt tctagtttca aggaatcata 120  
attattttct atttagaaat ctttggattg catttgccca atttaagctc aaattctgtt 180  
ttgtgcactt attaagttgt ttctgaatct tgcagaagca tatctacaga gaggagtcac 240  
caagcccatt ggacttccga tacgcagctt tttctaataa aatggaaaac gaattgtact 300  
ggaattgttt gtgtactttg gctcattcgt ccgaccgtat ctttgtaatc agtgagaatg 360  
gcaagcaaat gtccatgaca tctattgtta ttgtaaaaac atgtgttata accctgattc 420  
tcagattaca tttat 435

<210> 30059  
<211> 361  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-055-Q1-K1-E11  
<400> 30059

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ggttcgacac ctgctcgtag cagcagcgcg ccgaggccct tggaggcctg ctggagttca 120  
 gcgcgcagct gctgcagcag gagcggtagc aggagctggg catcctgctg aagccgttcg 180  
 gccccgagaa ggcgtcgccc agggagactg ccatctggct caccaagagc ttcaaggaga 240  
 cggcgtcata gcggagggag ggagggagac gtagctgccca gttttctaac gtgcaatgta 300  
 gttcaggtag tctaagctat gttaggaccc cccaagtgta tgtgctggaa ggaaggcaac 360  
 a 361

<210> 30060  
 <211> 319  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E12

<400> 30060

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 atcgtggggg ccaacatcct ggtggggcgc gccttcgacg tgccgtccat gaaccccgcc 180  
 gtgtccttcg gccccgccct cgtcagctgg gagtggggct accagtgggt gtactgggtc 240  
 ggccccctca tcggcgggcg cctcgccggc gtcactacg agctgctctt catctgccac 300  
 acccacgagc agtccccct 319

<210> 30061  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E2

<400> 30061

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 gtgagcctgg tggacgggtt caacgtgccc gctgtggtga gcccgcacgc ggtggggcgc 180  
 gggcagtgcc cggccctggg gtgcgcggcg gacctcaacg ccgggtgccc gccctcgag 240  
 cgcgtgctgg gggccggggg cggcgtggt 269

<210> 30062  
<211> 280  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-055-Q1-K1-E3

<400> 30062

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tggacaaggc ctccattctc ggcgacccga tgaataacct gaaagagctt gctgggaaga 120  
tcgacgacct ccaaaacgag ctggagtcac caccatcccc agcttccacg gcctcgctgc 180  
cttcgacgcc cagcagcttn cgnccctctga cttccacgct tgccgcccta ccatctcgcg 240  
tgaaggaaga gctgtgcccc agcgcgttgc ctagccctac 280

<210> 30063  
<211> 391  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E4

<400> 30063

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gaagcccact tgcaggtgct cctcggagga ggcggacaga gatccagcga caacagcagc 180  
agcagcgcca cgaacatttc ggctgatect cttctgtcgt cgttcggcct tggcttccct 240  
acctcagacg cggagcaagc atccaagtcg actgtttcca ttcctgatga tgctacgacg 300  
gtgaaagaag cgcccgtca ggcacggaag ctaagtatcg attcgtcgct cacaagtga 360  
gaaagggagc tgaagcgga gcaagccgc g 391

<210> 30064  
<211> 231  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E5

<400> 30064

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cgctcatgt tcggcgggcg gcacgagcac tttcccgga cgcttccac gggctccgaa 180

gtgcagtcgc tcgtcatcga gatcatcacc acattctacc tcatgttcgt c 231

<210> 30065

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E6

<400> 30065

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cagcacaagg cgtgctgcat tggacgcac tattaacgaa gtgctgttcc agatcataaa 120

gttcgccaac gagaaaaagg accacattcc tgctatccct gacaggattt tcaatcacga 180

gatcatgac ccaagctcgg attctgtatt tggatggaac acggacgtca ttcgcagagt 240

tctgaatagc gggcaccat actcgctata actgaagacg acatctcagt gggcgcccg 300

attcagatta ttagcgtgct gccgccctct ttggaagacg gctctgctaa ccatcgtggc 360

gaaccatata atat 374

<210> 30066

<211> 115

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-E8

<400> 30066

tcgcggacgc gtgggattat aaggcgcgaa tctatccatc tatctaattc actaacgcac 60

ggggatgcgt aacatcgga tgctgcgggc gcttgctctg gcgctcgggg ggggc 115

<210> 30067

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-F1

<400> 30067

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caccaggtaa ggttgatggg cggctcttcta aaatctgttg ggactggaga tctaacaact 180  
gcagatgttg agagaattct ggatgcaaag acggatactg ctgcacccag tatggcacct 240  
tcttgtgggc tgtaccttgc taacgttaaa tatgatctga atacctgaag acaagtttta 300  
tctagtggct tctgttggg ggccctccaga ttatgtcagc tgttggctat caaaggaat 359

<210> 30068

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-F11

<400> 30068

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gtgccgaccg gataaacactc aagagacgcc aaatgtgtgt atgcaataaa tggttgtgac 180  
gcataacaca aacgtgttta ataaaaagct gtctgcactc acccaatgtg tgtgcacaaa 240  
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<210> 30069

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-F2

<400> 30069

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gcaaatgcgt gtgcaggccg actaaccga ctactacttt cngatcacca agagcgagca 120  
cctcaccgac ctcaaggaga aattcaagat gatgtgcgac atgtcgatga tccggaagcg 180

ttacatgcac ctgacngagg agttcctggc ggagaacccg agcatgtgcg cgtacatggc 240  
gccgacactg gacgcgcggc aagacgtggg ggtgggtggag gtgcctaagc tggggaaggc 300  
ggcggcgcag aaggcgatca aggagtgggg gcagcccaag tcgcggatca cgcacctggg 360  
gttc 364

<210> 30070  
<211> 315  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-055-Q1-K1-F4  
<400> 30070

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aagccggttc cggaagacac aagatacggg gtattccgga tgtgaataaa tgtgtgtgag 180  
taataacgca gacgtgttta ataaaaagct gcctgcacgc acccaatgtg tgtgcacaaa 240  
taaaaatttc gccctggttt ctgtcgtcga aatatgttga agagtgttgt tcatttcata 300  
tattactatc tgatg 315

<210> 30071  
<211> 350  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-055-Q1-K1-D3  
<400> 30071

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cgctgagttc aagatcgtgc tcaccatcat ccgcgacggg ctcaaggctg accccaagaa 120  
gtaccgcaag atgaaggaga ggcttgctcg cgtctctgag gagaccacca cgggtgtcaa 180  
gaggctctac cagatgcagg agaccggcgc cctcctcttc cctgccatta acgtcaacga 240  
ttccgtcacc aagagcaagt ttgacaacct gtatggttgc cgacactcgc tccctgatgg 300  
tctgatgagg gccactgacg ttatgatcgc cggaaagggt gccgtggtct 350

<210> 30072

<211> 188  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-055-Q1-K1-F5  
  
 <400> 30072  
  
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 tattaccgat cttacataat gcccgacatg aacaatatga cccgccctca tcaactggga 120  
 gtggggctac caatgggtat actgggtcgg ccccctaata tgcagcggcc ttgccggact 180  
 catctacg 188

<210> 30073  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-055-Q1-K1-F6  
  
 <400> 30073  
  
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 gaccatcatg gggccatcgg acagcccatt tgcaggtggg gtattcttgg tgaacattca 120  
 cttcccaccg gattaccctt tcaagccacc aaagggtgtc ttccgcacca aggtttttcca 180  
 cccgaacatc aacagcaacg gcagcatttg ccttgacatt cttaaggaac agtggagccc 240  
 tgctttaact atctcaaagg ttctcctgtc aatctgtcga ctgtcacgg acccaaacc 300  
 tgatgatcct cttgtccctg agattgtcga catgtacaag accgacaggg ccaagtatga 360  
 gtccaccgca cgcctctgga cacagaagta tgccatgggc 400

<210> 30074  
 <211> 294  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-055-Q1-K1-G10  
  
 <400> 30074  
  
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 cgctgcctcc tcgactccga ggacggcgag gggatccacg ccacggggcg tcaacggcag 120



gcggaaccac acgatcggcg gcggcgggcg ggagcacctg gacgtggcgg tggagtctgt 180  
catccgctgg gcgtcgtgca ccaacttctc cacggcgccc tcacttcggg cctccctcgt 240  
atgctagcac tagcaacgtc gttccgcgcg ccggcgccgc caacgccggg ctga 294

<210> 30075  
<211> 395  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-055-Q1-K1-B7  
<400> 30075

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ggcgggggatg acggcgtcgg tctttccagc gctgctgctg gccgtagcgg cggtgcttct 120  
cctaccggcg gcagaggccg tgtggctcga gctcccgccg tcggggacca agtgcgctctc 180  
cgaggagatc cagcccaacg tcgtagtgtc cgccgactac gctatcatgt acgagtccca 240  
ccccagctcg catcccaccg tcgccgtcaa ggttacatca ccctatggca atactgtgca 300  
tcataatgaa aatgctacaa cgggccagtt ngcattcacc acttcagaag ctggaaacta 360  
ccttgcatgt ttctggatag acagcgtgga gaaag 395

<210> 30076  
<211> 394  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-055-Q1-K1-B8  
<400> 30076

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gccataaga gctgacatga gagatgcaaa attaggtgtt gggaagcaag aggaagatga 120  
cttcttcaca tctgaagaga atgtgcaacg aaagaaattg aatattgaac ttgaggagac 180  
tgaggaacat ataaagaaac gggaggtatg caatctaaca cctggtgcta gtttctctac 240  
attcatgcag ttttttccct gggctgatgc ttgacatgct ggaacctaga tataatagtt 300  
gtaagacctc tataggctag aagtagctgt actttcgtga tgtgaggata gctagcatca 360

accatttaaag agtcttcagc attttgtgcg cttt

394

<210> 30077

<211> 340

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-B9

<400> 30077

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ccgaattagt tcaaaagatt gaaagggaaa aaagaatttc ttcttattaa gcaacgaatt 120

gtgaaaatcc aagctcatgt gcgaagtcaa caagtgaaga agcattatcg gaaaatagtt 180

tgggtctgttg gcatcgtgga gaaagttata ttgcgttgga ggcgtagagg ggctggctta 240

cgtgggtttc ggtctacaga aagttcagtg gagagcagca atggcggaac gagtagcagt 300

tcaatccaag ataaagcctc tnggatgat tatgatcttc 340

<210> 30078

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C1

<400> 30078

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cgcgctgctg gcgagccgca gaatgaagtt cttgcagagg atcgcgtaac tgaacgtggg 120

tatctacccg ttcacgtcca tcttcctgat cgtctactgc ttcttgccgg cgctgtcgct 180

gttctcgggg cagttcatcg tgaagacgct gaacgtgacg ttcttgacgt acctgctggt 240

gatcacgctg acgctgtgcc tgctggcggg gctggagatc aagtggtcgg ggatc 295

<210> 30079

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C10

<400> 30079

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cataacacat accaaaaaaaa cttgcaaatt ttaaaccaat ctatcccctc cacacttcca 120  
accccatctt tccccctcat ctctctactc caacgttcct tacctacaat tcaaagccct 180  
gtcttactat agatcaaccc tgaaaaaaat ctacctttcc caaacataat tctcatccta 240  
gacaaacacc ttcattccacc tctattaaaa gcgataaaaa ccactcctat tt 292

<210> 30080

<211> 288

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-C12

<400> 30080

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aagggatgca cttgatgcc caacatcgga tatggctccg acaagaagac caggcactac 120  
cttcccaaca agttcaaaaa gtttgttgtt cacaatgtct ccgagctgga gctgctgctg 180  
atgcacaaca ggacttactg cgctgagatt gccacaacg tgtccaccgc caagcgcaag 240  
gagattgtcg agcgtgctgc gcaacttgac atcgtgggtca ccaacaag 288

<210> 30081

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C2

<400> 30081

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attgattgac tatggtagtg caccatacca tcaccaggat tgcatactca ctgtgtgtac 120  
cacacactat tgcgccattg aagacattta gggacatcga tcgatata catgtgatat 180  
ctggagtgtc gcttgcatat ttgttgagct ttgctcgtgt gataactgc atcactactca 240  
cgataccttg gaacagcttg cactgatgga tatagggtcta ggtcctcttc cactgtacat 300  
gctggaaaga gccgaccaac atgcggcgaa gtacgtaaga ataggaggat tgaactggcc 360

gccagcaata acaacagtag agagc

385

<210> 30082

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C3

<400> 30082

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gaaaatcctg ccggttctag cggcgggtgca cctggactcg tcgctgtacg aggatcccag 120

ccggttcaac ccttggagat ggaagagcaa caacgcgcca agcagcttca tgccgtacgg 180

cggcggggccg cggctgtgcg cggggtcgga gctggccaag ctggagatgg ccatcttcct 240

gcaccacctg gtgctcaact tccgggtggga gctggcggag ccggaccagg ccttcgtcta 300

ccctttcgtc gacttcccca agggcctccc gatcagggtc cagcgggtcg c 351

<210> 30083

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C4

<400> 30083

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aagactgatg ggatccttgg acttaacagt gcggcgataa gctttcccag tcagcttgct 120

agtcacggga ttattgcaa cgtttttggc cattgtatca ctaaagagca aggtgggtgga 180

ggatatatgt ttctgggaga tgattatgta cctagatggg gagtaacatg gacttctatt 240

cgaagtggtc cagataactt atatcacaca caagcccacc atgtaaaata tggggatcag 300

caactccgga ggcctgaaca ggcaggaagc actgttcaag taatttttga 350

<210> 30084

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C5

<400> 30084

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tataactgct gctggttggc tcctaattga acctaataac gcctgcaatt gcttccgtcc 120

aaggaaatcg aagcaggaga ttataaattt cctcacgcct ctgcactata cctgccactc 180

ttagcttttag ttccgtaatg gtacatgtag gactgcgtcg gtacacttcg actggtcgat 240

taattttatt taataaatgt ggcgcattga tcggacagtg tgtaactcag aatatggagc 300

atgcaattgc cgtgtatggg ttctagac 328

<210> 30085

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C6

<400> 30085

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tgatagagag ggagagccat cacagctggc tccattgat gtcttcgtca gtacagtggg 180

tccattgaag gaacctccac tgatcacagc caaactggt ttgtccattc tttctgtgga 240

ttaccctggt gacaaagtgt catgctatgt ttctgatgat ggttcagcta tgctgacttt 300

tgagtctctc tcagaaaccg cagaatttgc tagaaagtgg gttccctttt gtaagaagca 360

caa 363

<210> 30086

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C7

<400> 30086

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attgattgac tttggtagtg cagcatacca tcaccaggat cgcagtttca ttgtgtgtac 120

cacacactat tgcgcccttg aagatattta gggacatgga tggagctata catgtgatat 180

ctggagtgct ggggtgcatac tcgttgagct ttgctcgggc gagacactgc atcataactca 240  
cgataacttg gcacaccttg caatgatgga tagaggctta ggctctcttg cactgtacat 300  
gctggaaaag 309

<210> 30087  
<211> 309  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-055-Q1-K1-C8

<400> 30087

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agggttcgtg tccaaacagc cagttcaccc gttccttata ttccgtcggt cagctggcgt 120  
cctctctctc tcttggtggc acgactgggt gacctccccg cccccgcgcg tctacgccag 180  
gtgcccaggt cttcctcggg cccttcgccg aagagcagcc aacaggtaag catggctcag 240  
aaaatggcaa ctgttgagcg agtagaagag cttctcgaga agctgcgtgc tgcttcctgg 300  
gatcatgct 309

<210> 30088  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-C9

<400> 30088

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ctcagtgcta cgagaacccc aagcacaagg gcaccgctgt ccccgccgac gaagaagaga 120  
tctgcggtgc cactttcaag gtggtggaag ggtctactgt cctgacggcg ctgcactgat 180  
ctatcatcat caggcggagg cgatgcgatg atgatgcaga actttgtaca tgcgttggtg 240  
gatggtggtg taacatagtg gctgccaca agtcatgctc atgcaaaccg atgaatctat 300  
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tagct 365

<210> 30089  
 <211> 191  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-055-Q1-K1-D1  
  
 <400> 30089  
  
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 gaggcccttg agatcacgcg caagttcatg aacaaacctg tgaggattct cgtcaagaga 120  
 gatgagctca cccttgaggg tatcaagcaa ttctatgtca atatcgacaa ggaagattgg 180  
 aagctcgaca c 191

<210> 30090  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-055-Q1-K1-D10  
  
 <400> 30090  
  
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 actgactact gggaggacat tggaacaatc agatctttct ttgatgcaaa catggccctc 180  
 tgcgagcagc ctccaaagtt cgagttttac gatccgaaaa caccattctt cacttcccct 240  
 cggtaacttg caccaacgaa gtcggataag tgcaggatta aagacgcgat catttcacac 300  
 ggctgcttct tgcgtgagtg tgccatcgag cactctatnt gtggtgttcg ctcacgccta 360  
 aactctggat gcgagctcaa gaataccatg atgatgggtg 400

<210> 30091  
 <211> 321  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-055-Q1-K1-D11  
  
 <400> 30091  
  
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cgtattgtat gttagtgtag gatgcgctgc tcgcattgca ctgttattgt gcttctgttt 120  
 ggtggaaata aagattgggtc gaaatctgag ggccaaatca aaaaataaaa atataaacat 180  
 aatggaagaa gacacaatat ctcgagtata acgatacaaa atacaagata attcagttcc 240  
 ggtaaacagc tatgcctcca ttgaacctaa ataagtcttg atgggggggc gccctcttta 300  
 aagaccccag gttacctgcc c 321

<210> 30092  
 <211> 364  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B6

<400> 30092

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 cagcagctgg tcgcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc 180  
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 gggtagcgcga tgggcagcgc ggcgtcgccc tccgcggcgt gctgcagcgg ggtgcgctcg 300  
 ctcaacagcc gcgcgtcgtc ggcggcggac cggcaggcca cctgcaactg cctcaagagc 360  
 atga 364

<210> 30093  
 <211> 332  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-D12

<400> 30093

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 ttgctctgct ttggggcatc atcgccccgg gcgtgtacga gtccatctac cgtgccggat 180  
 ggcggctctg gggggacgcg gtcgattgca gctgcgtcca tgtcttctta ctccactacc 240  
 ttccagggat ctgcgcttcg ctggcggcgc tcatgttcaa ttgcgtgtac aaggatcaga 300



tcggatatca ctattacgca ccctacgtgg ac

332

<210> 30094  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H9

<400> 30094

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gccgccgacc acggcctcac gcacatccac ctgtacgtgc acgagacgta caccggggcg 180  
aacgccacgg ccgccgccgt gctgcagtcc ccgctgggag cctactcgtc gttcgggagc 240  
atgggcgttg tggacgacga gatacgcgtg ggcccggacc ggtcgtcgca tctcgtcggc 300  
cgggtaccagg gcgtattctt cggcacgagc gtgcatcttg gcgccggctt cctgtcgtcc 360  
atcacgc 367

<210> 30095  
<211> 359  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A10

<400> 30095

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ctgcaggaca tctattgttg acttcacag aacctgcaat aaatgtaact atgatctctg 120  
tctccagtgc tgccaggagc ttcgtcgagg ccttgtttct ggtaatgatg ccaaggttga 180  
tggtggaggc aagcaagatt ttctatcggg agttagtcat gataaaatca taagcgaagg 240  
gccatccgat ggacagaatg acatgttgat agatagcgta gttcctgggtg aaaacaacac 300  
ttctagcttg agacagtgga gtgtgaataa aagatgaacc ataccttgcc caccaaagt 359

<210> 30096  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A11

<400> 30096

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attccagtcc ctacatgaag catacaaagg aaaaattggt gggctggtaa tatccacaaa 180  
tgaggctcca tcatccttag gatccataat tgacgcacca tcttcactgc acatttcaag 240  
acggctagaa gaagcaagca agactacaga tatagcctcc gtggtactcg ttcggaagag 300  
cttggcatgg attacaggga tcatcctgct tgtttcaact ctcatagggg tttgcttgct 360  
tatgaacatg ccac 374

<210> 30097

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A12

<400> 30097

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gctgcgagag cccaatatgc atccgaccat acaatcgact gaccgctctc tctcggcagc 180  
gtctgaatct gcaactgggc gaccactcct ctggcgctcaa gtcactgcac cctatcggcc 240  
tgcgtcgcat atttaactaa acgcctgcgc ccatacaaaa cggagatcta ttg 293

<210> 30098

<211> 242

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-A2

<400> 30098

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agaaatggag aactttatct tcataagtgc ccaaattgtg gagtcagact catagatggc 180  
 accagcttag ctgatgcagt atttgtgaat agtgttcctc aaggcacaga tcaagttggt 240  
 ct 242

<210> 30099  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 tgcgagagtt ggtcgtactg atggtacttg gtagcatccc tgccctgccct gttctttgag 180  
 tgaagcgttg gaacgtggcg tgtgtgtagt gtaactgtgt atgcaggcgg tgatttatat 240  
 gcatgcttcc tttaagtaga ttgccagtag tatctgcgta tggtagctg gtengtcctt 300  
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<210> 30100  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-055-Q1-K1-A5  
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 attccagtcc ctacatgaag catacaaagg aaaaattggt gggctggtaa tatccacaaa 180  
 tgaggctcca tcatccttag gatccataat tgacgcacca tcttcactgc acatttcaag 240  
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<210> 30101  
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<212> DNA  
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 <223> Clone ID: LIB3067-055-Q1-K1-A6  
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 ataccagtcc ctacatgaag catacagaat gaaaaatggg tcgactcgca atatccacaa 180  
 atgagggtcc atcatcctta ggatccataa ttgacgcacc atcttcactg cacatttcaa 240  
 gaccgctaga agaagcaagc acgactacag atatagcctc cgcggtactc gttccgaaga 300  
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 aatgaacatg ccacataccc aggacaccct cctgtact 398

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 <211> 262  
 <212> DNA  
 <213> Zea mays  
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 gacttgctca aagttgttct gaataagtgc caggaaataa ggcctctatc ttatttaggc 180  
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 <212> DNA  
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aggcttcaag ggcgaagggtt ggcgcgagcgc aagaaacccc agctgaagcc cctccttcag 180  
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atctgaccgc gcaattgggtt gcttcgaacg aagtcccagt ccatggttga tcagctgagc 300  
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gaagttgaat cgctcgaagt gtcac 385

<210> 30104  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-A9

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gtcgcaaatt gggggaattc gtgcctactc ggcatttcac gagttatgaa agtacaagaa 180  
aggatactaa atctcgtcgt taattgaatt cagaatagaa agattcagaa taaacaaaat 240  
ttataggatt caaataatca aataaagtaa aggtaggcgg gtaataacct tatttatgac 300  
aagtttcaaa ttggtaaagt atacccttag gataaagaag aagaaggggc tgagaaaact 360  
cgcaagaaaa gttccaaccg atcgtctact taaattcgaa cgggttttca aagcacaaaa 420  
acgcata 427

<210> 30105  
<211> 356  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-055-Q1-K1-B1

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ttgtgggttt ccttcttttag attgtgggtt tcaactgtctt ccatccaaga aacactgtac 180

aaatcaccta aacaggtaat gtactcagga gggggtgatg aaaacaagaa cctcaaactc 240  
aaataagtac aaagaggggtt ctcatgttat ggagtatggt gataagacct tcaaggatga 300  
gaagctntcc ttttatcaag gttttgatcc tgctaatagcc aacattgcaa acatgc 356

<210> 30106

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-B11

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ccagacaaca ggttgatgga ggctaagatg ggacgcttct tcgagtcctg gagcaatttc 120  
ttcacccggag gcgaccacat cccctgggtgc gaccgcgacc tcatcgccgg ctgtgaagga 180  
gagcttgatca atgctgtaaa tgaggaacaa aggaatgaaa gccttatgag gttgtcatgg 240  
gcccttggtgc actccaggca gacagacgat gtaaaccgtg gaatcagcat gttcaagct 300  
tctttggata attctgccag tcctctgcag actagggaaa agctgtactt gttggctgtt 360  
ggattctaca ggattggcga ctactcaaaa agcagggaac t 401

<210> 30107

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-055-Q1-K1-B12

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gacaactaca tgctgcgttt gttctgcatt ggttttacca agaggcgccc aaaccaggtc 180  
aagagaacct gctatgctca ggcattcccag attcggcaga ttcgcccga gatggttgag 240  
attatgatca accagtcttc tacatgtgac cttaaagaac ttgtttctaa gttcattccg 300  
gaagttattg gcaaagagat tgagaagtct acctccagca tcttceact gcanaacgctc 360

ttcatccgca aggtgaagat actcaaagcc cccaagtttg atc 403

<210> 30108  
<211> 400  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H8

<400> 30108

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agtcgctgaa gaagctcgtc gacgagacca cgttctatga caggcagtgg caggcgacct 180  
ggcaagatga ctccgctggg ggaccaaaca actagttagc cgttgtggta caaaaaaat 240  
gcaaacgct ttcttggtac gtagcttacc tatttcctcg gccttcttgt tttccctgtg 300  
tagtgagatc tttttttttt tttgtttttg acaaacgcaa tgatctacgt catgttgtaa 360  
aattgtatgg aaaataattc tgcagtttca gttttttttt 400

<210> 30109  
<211> 158  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B2

<400> 30109

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tgttctgttt tacggcttgc gggtttcttg ttggtgcc 158

<210> 30110  
<211> 166  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B3

<400> 30110

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gtgagagctc gtactgtgtc tgtgtgactg tgtctgtggc cgtatgagca tttagccctg 120  
gatctgtgtt tgttactctg tcttcttcgg gaacatcgat tatctc 166

<210> 30111  
<211> 140  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-055-Q1-K1-B4

<400> 30111

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ttcgcaccca tgcgggggta 140

<210> 30112  
<211> 377  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-055-Q1-K1-B5

<400> 30112

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gatgagaatg agttagctat ccttgaattc atacatcttc tggtggaac tatggatcgc 180  
cacttcggca atgtgtgcga gctcgatatc atgttccatc tggagaaagt gcacttcatg 240  
ttggaagaga tggatgatgaa tgggtgcatt gtggagacaa gtaaacagaa catcttggca 300  
ccaatacaac ttatggagaa aacttnctaa aatagtgata tccatttgtg tagttntaca 360  
tccacttctt agcacat 377

<210> 30113  
<211> 440  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-054-Q1-K1-G2



<400> 30113

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gcacacctgt tctagtctat gtttggttaa cagcccaac agcagctcta gggagatttc 180
taccacctag atgctcagtt tcaccaacta gtttatcaac aacctctcag aatttttatc 240
aacaacaatt agtcggttga actcctatct ggacgattaa tcaccgttta atcgtggtta 300
gtgttacgat cagagttcta gttgccctag tcgcgtcgtg caccctaact gatcttgcaa 360
tggcgataag gccgactaat tgcgactaat cgtgattagt cggacgactn caaaacatgg 420
ctaggcacat gtatttgcaa 440

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<210> 30114  
 <211> 272  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G3

<400> 30114

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aaacaataaa aaaaaaaaaa aggaaaaaaa ataaaaaaaa aaaattcaaa ttaatatat 120
ttattacaat attatacaac attacatatc actttattaa ctcatctata ttacatcta 180
attccacttc ttttaccac ttttttacta ctaataccct tcctaattccc aactctttct 240
caatttaata cattttcctt tctttacctt tc 272

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<210> 30115  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G4

<400> 30115

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agataattgg ttgtgaattg cagcacaccg attgcagact cattcaactt ccccatgttc 180

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ctccttcaca gcatttctctg agacctgcgg acacattgcc taaccttctt cttgaactca 240  
 ttccgcttct ctctccaatc cttggcagct tcaatatttg ctggagactc gtcattcgga 300  
 ctagagagca ttgaaatgat gctcagaact 330

<210> 30116  
 <211> 244  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G5

<400> 30116

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 cagtgttaac gttgcaatgg cgggtacagg cctgtatcag ctttcacgga agattaggca 180  
 agattacttg tctggtgaga aggatgctgc tccacaactg caagaataga taatgacaac 240  
 acac 244

<210> 30117  
 <211> 436  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-054-Q1-K1-G6

<400> 30117

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 cagcgggaata aataactata accgtgttac tgctagacac aaagccttct ctgaacaaag 180  
 cttgcacaca tggtattagt tcagctagca gcaatttcag tcagctatat agcgcgcctc 240  
 attggttgac tgaagtgggtg aatgtctatg ctcaggaccc aaattaaagg cgatgcaact 300  
 tcttgctgcg atgtcagcta gccggatcag tttctggagg acattatatt ataataaat 360  
 atgaagaata catattatng tatatgtcat ggggtatatt catcttcaga tgcttgcct 420  
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<210> 30118  
 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G7

<400> 30118

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tattcaatgg tagtggtgaa ttatctagaa gcaacaaagc aacagattta aaatgccagt  180
tatagagtta ggcttagttt tagttaaaat attagtgggtg aattatctag gcatacatcc  240
agtccacacc ctcaacatac cgagttaggc tcagtttttag ttaaacaacg tcttggtttc  300
ttgtgcctac tgatggcttt tcttaatat atatcaatga catcttaggt tttggaaggt  360
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<210> 30119  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-054-Q1-K1-G8

<400> 30119

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aagccattaa tttccagtgg caatccagcc ggacccttca agtttagtga ggctgaacaa  180
gaacagatgt tggagctccg agaccaggtt ttcagagtat ggggtctttt gagatcctca  240
aataactttg atccgagncc tttgcaacca atcgttcagg tgctacaaga accagaggcc  300
cgcgtcttgg gttctcgtgt cgcagtgggt gtaacacagc gccttgcggc acgtctgctg  360
caacagcttc tcaggatccc ttctcctgga tcttcgtaac agattatata gagatgggct  420
cgtatgaagc atgt                                           434
  
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<210> 30120  
 <211> 366  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G9

<400> 30120

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gtgtaacctg gcttccggca tggcttccaa gcagatcgga gtcttgacct gcttcattgc 120

catcacccgt ctgccttcc gtccttgcgc attcgccgtg cccatggacg gtggctggtc 180

gaacggctgc gccacctggt acggcccagc caagggcgct ggatccgacg gtggtgcgtg 240

tgggtaccag ggtgccgtcc accagccttc ggtctcgtga atgatcaccg gccgcagcca 300

atccatcttc caggacggca agggctgctg cacctgctac caggttaagt gcacctgaca 360

cgcctt 366

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H10

<400> 30121

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atgacgtttt ggagcataca gctcccgctt ttttcagaga tttgtgtcac ctttttgatt 180

tgcttctggg gctactcttg ttgccgcatc aaaaccagct aacgctgttt tgcgtgtgca 240

gtggtttatt tgacaatgtg taggagattt ccacc 275

<210> 30122

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H11

<400> 30122

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ctgcatatca aatatactga ccactacctg ccagtatgag gccctcaagt atgtaagctt 120

ccctgtccaa acgcttgcca aatgcgccaa gatgatacct gtcattgatct ggggcacaaat 180  
aataatgaga aagaagtatg ttgcaaaaga ttacttcttt tctgtcgtcg tgactatggg 240  
ttgcgcattg ttcattctat atccggcgtc gatggatgtg agtccattta ataaaggcag 300  
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aag 363

<210> 30123  
<211> 353  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-054-Q1-K1-H12

<400> 30123

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agcttcctcc ccaaagacca cccgctccgc aaggaacctg aattttatgt tctgaaagaa 180  
gatgagtcac cctgtatttt tggccaatc gtgaaacaac gatgggtccta tgcttgccgc 240  
aagcaactta ttgagagact tatatttgct gaagggtgcag aaaatggcct ngaattcaca 300  
atcgtgagac cttttaattg gattggggcca aggatggatt tcattcctgg tgt 353

<210> 30124  
<211> 203  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H2

<400> 30124

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cctcccccaa ccccaggcc gctgcactgc aagccgaggc tgacgctgca acattagaga 180  
gcctcaacga gcacacactc agc 203

<210> 30125  
<211> 433

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-054-Q1-K1-H3  
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tcgcgggtgt tcttcgtcac cgcttcgccg acgcacacgg acggcagggc gtggggcgac   180
gacgacgcgg agggcagcgg caactgctac aaccagacgt cgcgatcag cgcgcctcg   240
tcctaccgtg gcggcacgag ccaggagatg ctgcgcgcga cggaggagggt gctggccacg   300
tcgcgggtgc ccgtcgggct ggtcaacatc acgcgggtgt ccgagtaccg tcgggacgcg   360
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<210> 30126  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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tgtgtcaag gttggcatgt cctgtgaggg ctgtgttgga gctgtcaagc gggtcctggg   180
caagatggaa ggcgtcgagt cctacgacgt agacatcatg gaacagaagg tcaccgtgaa   240
gggcaatgtg acacctgacg ccgtcctgca aactgtttcc aagactggca agaagacttc   300
gttctgggag gctgaagccg tgacaagtga atccgccaca cctgccggcc accgcctgac   360
aggttcgatg atctggaagt gcccagcaaa aaaatgtgaa tgtatntagc ttggatctgt   420
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<210> 30127  
 <211> 434  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H5

<400> 30127

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ggacaggatg gcaatgaggt gttctttcgc ataaagaggt ccaccagct gaagaagctg 180  
atgaacgcct attgcgaccg ccagtctgtg gacatgaatg ccattgcatt cctgtttgat 240  
ggccgcaggc ttcgcccga gcagaccct gatgagctgg agatggagga cggcgacgag 300  
atcgaccca tgcttcacca gaccggaggc agcgcttcta gcaccaccta aaagcagcag 360  
ctgcccagcc tcgttttgct ctccgccctg cgtagtacta aacaaaaggg aaaaagtctt 420  
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<210> 30128

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H6

<400> 30128

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tcgggggcat cgccacctcg ctgctcttct ccgccttcga gtcctggctc gtcgcccagc 180  
acaacaagag aggctttgac ccgcagtggc tgtccataac attctccaaa gccatcttcc 240  
ttgggaacgg cttaattgcc attgtatctg ggctatttgc gaaccttctt gctgagaact 300  
tgggttttgg tcctgtggct ccatttgatg cggctgcgtg ctttctggcg attggcatgg 360  
ctatcataat gtctcatgg agtgaaaact acggagatcc atctgaaagc aaggacctga 420  
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<210> 30129

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G12

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cgcacaaaat aaacagcttc aacacggcac ctaagaagct gttggcatct gattccccggc 180  
tgaagcccga tagatatgcc ctcgagaagg gcgacatgtc caagtctggc tcagaaaaga 240  
gcaggctgga ggagcagcag agagccgaga aaaggactcg agaggccaag ggcgagcagt 300  
tcaactccgg atggttcaac gtgacggatg cggtcgcctt cacgccgtgg ggtgacctgg 360  
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<210> 30130

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-H7

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cggcggggcat agcaacctca aggcgctgat gtgagtcgta gtccctggctt gtatccaatc 180  
acaacaagag aggctttgac ccacagtggc tgtccataac ataatacaaa gccatcttcc 240  
ttgcgaacgg cttaattgct attgtatctg ggctatttac gaaccttctt agctgaaaac 300  
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<210> 30131

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E4

<400> 30131

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gtagagggtc agatggcaag aacagaatcc tcaccattca gcctgtgaag ttgcaccaga 180  
 ggctgccttt gttcttagga agcatggatg acatgcttga gttggaaagc tacggagatg 240  
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 ttttcaagcg cccaagcaga aaataaggta acactcgtgt ggcaaccctg tatctgccga 360  
 tactatacct tgtcttttcc tctcggtttt tagcccaccg caacttgatt gggactaaat 420  
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<210> 30132

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E5

<400> 30132

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 gagtgttaaa gccacacta actggcctac atttccacaa atatttatca aaggagagtt 180  
 tgttgggggg tctgacatca tattaagcat gcaccagaag ggtgagctta aggatcttct 240  
 tggggatatt gcacaaagag acgaacaaaa agtgcattgct cacgattcat gaagcaatca 300  
 acagtagggt cttttactat gcgctatcta cttagccact aaaatgttct atctcgaggt 360  
 ctttaggcga cagcgtacgt gacattgtga actgtcctac gcattggaca tggatgaccg 420  
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<210> 30133

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E6

<400> 30133

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 ttg 123

<210> 30134  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E9

<400> 30134

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ttgttaggga ataacttcac ggtcgtcttc atggttcaac tgcgtgaccc actacgtaac 180
tactagccag tgggcacacc aatgttcgcg ttaattcaag ttgaaagggg ttttgtaccc 240
ccgaagccca aaatctacag taccgtctca gacaaaggca acagcgagca ggatgactag 300
gaaccaagg ccgaagaggt tccagacaag gcattgggtc cggaagagaa agctgaagaa 360
ttagaggatc ccgttcccca attcaagggt tcag 394
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<210> 30135  
 <211> 227  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F1

<400> 30135

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cttctagtct attacagaaa tggtgttcgg agctgagtct attataaaca tcttgggtctg 180
agttttattgt tgagtgggtg cagttttttt caatatacat ttatctt 227
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<210> 30136  
 <211> 337  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 30136

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agccaaccta tcccacccgg tctagcctct agcgatcccg gcgccggcag cgcgcacgag 180  
aggaatggac gcgtcgcacc cggagggcga ggccacggct ggggtggctga cggtcgagga 240  
gtggagcggc tcgtcagcct tcgcgtctc cgcaccgtc gtcctcaccg ncttcggctn 300  
ctctctcacc gcacacaggt tcggcagccg gtgggag 337

<210> 30137  
<211> 454  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F12

<400> 30137

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tactcaggtg aacaagctga aagctgaata cacgtcactt tctgaagaag cgtgtgagtt 180  
aacacaagaa aagaatgagc ttagagatga gaaagcttca ctgaaatctg aggttgataa 240  
tttgaataat cagtatcagc aacgaatgct ggtgctatac ccatggggtg gaatggagcc 300  
ttctgttgtc atggggccac ctctgcata tccctaccca gtcccagttc caataccctc 360  
tggtgctgta cccatgcac cgcagttgca aacataccac ttcttcaca gtcaagcttc 420  
tggaaccatc ccatacacat gcatccctta catg 454

<210> 30138  
<211> 313  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F3

<400> 30138

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aaaaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaataaa 240

aaataaataa aaaataaatt taaaataaaa aaaaaaaaaat tataaaataa aaaattttttt 300  
 ttattataaa taa 313

<210> 30139  
 <211> 84  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-054-Q1-K1-F4  
 <400> 30139

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 taaaaaaaaa aataaaaata atac 84

<210> 30140  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-054-Q1-K1-F5  
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 ctacatcatc tccgtcaagg gcatcaaggg ccgcctcaat cgcctcccg tccgctgcgt 180  
 tggcgacatg gtcattggcca ccgtcaagaa ggggaagccc gacctcagga agaaggatgat 240  
 gcccgccgctc atcgtccgcc agcgcaagcc gtggcgccgc aaggacgggg tctacatgta 300  
 cttcgaagat aatgctggag tgattgtgaa tccaagggt gagatgaaag gttccgctat 360  
 cactggacct atcggcaagg agtgtgctga tctttggcct aggattgcta gcgcagcaaa 420  
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<210> 30141  
 <211> 404  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-054-Q1-K1-F6  
 <400> 30141

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ctcctttcac tcgtccggcc tgcattctcca gcattgtggt ctgattcacc tgcctcaatg 120  
gctgttcttt ctgctgctga tgcttccccg gtctcagcta tcgggtttga gggctatgag 180  
aagcgccttg agatcacatt ctctgaggca cctgtctttg tggaccctca tgggcgtggt 240  
ttgcgtgccc ttccagggc ccatattgac ttctgttctg gatcttgac gtttcacatt 300  
tgtgtctgag tctttttaac attgatttct tctcatatgt tcttttttta tttttgctat 360  
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<210> 30142

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F7

<400> 30142

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atggtcgcac cttggctgac tacaacatcc agaaggagag caccctccac ttggtgctcc 180  
gcctcagggg tggcatgcag atctttgtga agacattgac tggcaagacc atcaccttgg 240  
aggtggagtc gtctgacaca atcgataatg tcaaagccaa gatccaggac aaggagggca 300  
ttccaccgga ccagcagcgc ctgatctttg ctggcaagca gctggaggat ggccgtaccc 360  
tcgccgacta caacatccag aaggagagca cccttcacct ggtgctccgg ttgcgaggtg 420  
gtatgcagaa tcttgt 436

<210> 30143

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F8

<400> 30143

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cccgtcgtcg tcgccatgca ggcacctcca gttcctgtcg gcagcgagcc cgcggcggcg 180  
 gtggcggggc ggcgcccgcg cgttacgggc gcaggtgtcc accaccgaga ccgcggcggc 240  
 ggggccggcg aagacgtcca agaagcagga cgaggggctg gtcaccaaca agtacaagcc 300  
 caaggagccg tacgtcggga ggtgcctgtc caacaccagg atcaccggcg acgacgcgcc 360  
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<210> 30144

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F9

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 cggcggcaag gcgccgcgga agcagctggc caccaaggcg gctcgcaagt cggccccggc 180  
 cacgggcggc gtgaagaagc cgcaccgctt ccgccccggc accgtcgcgc tccgcgagat 240  
 ccgcaagtac cagaagagca cggagctgct catccgcaag ctccccctcc agcgctcgt 300  
 ccgcgagatc gcacaggact tcaagacgga cctgcgggtc cagtccctcg ccgtggctgc 360  
 gctgcatgag gccgcggagg cgtacctggt ggggctcttc gaggacacca acctctgcgc 420  
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<210> 30145

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E3

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 atcggagtct tgacctgctt cattgccatc accgtctctg ccttccgtcc ctgcgcatcc 180  
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ggcgctggat ccgactgtgg tgcgtgtggg taccaggggtg ccgctcacca gccttctgtc 300  
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<223> Clone ID: LIB3067-054-Q1-K1-G10

<400> 30146

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 gccattaccg ctctcacctt ccgtccctgc tcatcctccc ttcccataga ctcttgctag 180  
 ttcacactgc aaaacaacgc tctcagcata ctcatatacg cctccttaca tcagagcttg 240  
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 aaccttctcc tatcatatgt ccaccttttg cat 333

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 <211> 205  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G11

<400> 30147

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 gttttagttt gtctggccat gcttgggtcg catcaatctg tgacacgatg aatatcactt 180  
 tgtcaaccta ttctttctcac aaaat 205

<210> 30148  
 <211> 293  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C8

<400> 30148

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aattaataaa aaaaaaaaaa aatattaataa aaagaaagat ggaaaaataa cagaatagga 240  
attgaaacaa atgaaaaaaa caacaatatg cgcaaattga ataagataat ggg 293

<210> 30149  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D1

<400> 30149

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cgccaagtgt accagcagca gcaggtaag gtggccacca ccggcggcgc cgacatcgcc 180  
accgccgcct cgccgtcgat gcaggccagg caagagctgc tcgcgtgcga gggcgctgct 240  
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cttaattaac ttttgtgcag tctgatcaat acgtgttggc ttgtttgttt gctgcttctt 360  
aatttaattc gtatgtgaag tattctgctc accctagcaa aaaaaaaaaa aatgca 416

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D10

<400> 30150

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cctagctcag ggttccacca tcatcatcac caccaacaca tcatcatctc gcatctcgtc 180  
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tgcgatgcc tgctcatctc t 261



<210> 30151  
 <211> 408  
 <212> DNA  
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<223> Clone ID: LIB3067-054-Q1-K1-D11

<400> 30151

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ccggatccgc gactcggtca agcacggcta cctccagaag ctggagctca acctcggcaa  180
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cggccagccc ggcggaacg ggaaggcgcc gctgctcgag gaccgctcgc catcggggtc  300
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<210> 30152  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D12

<400> 30152

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gtttttaatc agcttagata gctcaacgca caacgcctct ggaaactggg gatctgaata  360
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 <211> 438

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 agatcttcgt gaagacattg actggcaaga ccatcacctt ggaggttgag agctccgaca 240  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-054-Q1-K1-D6  
  
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 <213> Zea mays  
  
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 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D8

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gtcccttttt ttaatttaaa taatttcttt tttagattat catattattt tttcattttt 240  
tatttttata tttcattatt ttattttttt aattttcttt tttctttttt ttctttaatt 300  
atctttttgt ttttttttat tttttttttt atttgtttat atttttttta tttttctatt 360  
tttctttttt attttatttt tttattctct tttttttttt ttttattttt ttttattttt 420  
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<210> 30158

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-D9

<400> 30158

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gcaactgcat gtcccctgac gtggagaccg ccgcccagcag cagcatcaag accatgggtc 180  
tcgtgcgcc gaccaccaag gccagcgccg gcggttcga ggcggccacc gagggcggct 240  
gctgcgactg caacacctgc aactgcggca ccagctgctg ctgctcctgc tgcagctgca 300  
actgagccgg cccgcccggc ccggcgatgg ctcacgagag tcgagaggac tactactact 360  
aggcgtttaa atattattaa tag 383

<210> 30159

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-054-Q1-K1-E1

<400> 30159

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ccaaacttca accttgcttc catctatagc ttctcaaga cctgcatgtg tcctcaattg 180

gagaagcctt gtgccaaata gcgagcaatc ttgacagata catgaaagcc ctaagcacca 240

atttgaggag atggacatnc acaggcgctt gcatttatta gttgatgagg attattaacc 300

cgggacaaca accattcact ccactccaat tctacaaaag gaaggctcag aactagcatc 360

ccagatgatc gaaggattcc tccatgccac ta 392

<210> 30160

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E10

<400> 30160

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ggaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaag aaaaaaaaaa aaaaaaaaaa 120

agaactagaa agggaataaa ctaaaaggta gtttctaata gttcaactga gtgacaaact 180

acgtaactac gagccagtgg gcacaccaat gttagcgta atacaagttg aaaggattat 240

tgtacaatca aagcccaaaa tctacagcac cgtataagac aaatgcaaca gcaagcaaga 300

taactaggaa cataaggccg aagaggtttg agacaaggca ttggtcacgg aagaga 356

<210> 30161

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E11

<400> 30161

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atgtttaccc tagtccagag ggtttatctt cgttcgtctc gtttggtgtt gccatctgt 120

gtttttgatt gcaaggctgc tctgtgtcag ttgttagtgc tgtgttcac ctcggctcca 180

gcagacccat gcatcaacca gcatggactg tggatcgatg gatgctgtta ctctgtcag 240  
gatttgttct aagttaatcc taaggaaaaa atggtgcttc ttggtgctgc 290

<210> 30162  
<211> 240  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E12

<400> 30162

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cctttctgat tgtaacgtca ctctatctca gttgcttcta ctctgttcat actaggctac 180  
ttegcaccca ttcattaacc aacatggctc atggctcgat tgattctgtt acttctagtc 240

<210> 30163  
<211> 425  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-E2

<400> 30163

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tctacatgct tgatgtgctg taccgcttcg tcaacacata catctaccgt caatcggaca 180  
gccactacgc agaataccga gaatgttaca cacatacatg aaagctcgta gcacgcattt 240  
tgacgagatt gacattcaca ggcaactgcc tttattactt gatgagattt attaaccggg 300  
gacaacaacc attcactcta ctccaattcc taaaaggaa ggtccagaac tagcatccca 360  
gatgatcgaa ggattcctcc atgccactaa tagtgacatg cctagtatta ccattcaagg 420  
ttgca 425

<210> 30164  
<211> 397  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C7

<400> 30164

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gatgtgtctc gaaatgccag taaagcaaaa gacataatcg atcaatgcga taattccgag 120  
gggcagccgg ctgcagagga ggggcggccg gcggcggtgct gcagaggagg ggcggccggc 180  
tgtagaggag gggcgccag cggcgtgcta cagaggagg gcggccggct gtagaggagg 240  
ggcgccagc tctgtgctgc agaggaggg cggttcagg taagttagg tttaggtttt 300  
gtaatgggcc tttggactgg ttggaccgaa ctggggacaa gtctgccgac ttgctagccc 360  
tagtctactt atatatttca gtcgtgggca agtttag 397

<210> 30165

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B10

<400> 30165

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ggcgcaatcc agtgtccag aggtcacgtg gctcacacag gggaaggggg ggttatgaca 120  
ctggtaggcc aaaccatgtc acaaatgtgg agaggcgga gggtcgcagc catcttgaat 180  
accagccagt ctgaccccaa atcaaatctg cagacttcca acagagcctg agcatggaag 240  
aacgaaccga ggggcctact gcttctggac aagcggtcat gcagcgtgga cacaacaggg 300  
ggctactccc aacatgccgc tttgtccagc gaaaccctgc ttctacgctt accactaatt 360  
ctcaccaaaa tgaataatct 380

<210> 30166

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B11

<400> 30166

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gggctctcaac catggccttg gtcacgcagg aagcagagcc tgggtgctaga gaagctccca 120  
 gtgccccatg tgttggcagc atatcagcat gaaagatcct atgagccaag agctactaga 180  
 ggctgttgaa caagagagga acatccgatc taatccttca cgtaatactg ctgttttcca 240  
 ccatccaatg ctgggtgatt ttgagggttaa gaaactccat caagaaaagc agttaggaat 300  
 gatgggtggac aaaggcctgg tagcaactag gacaggggtg agtcagtacc acctgtctca 360  
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 ggaggt 426

<210> 30167  
 <211> 61  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-054-Q1-K1-B12  
 <400> 30167

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 c 61

<210> 30168  
 <211> 435  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-054-Q1-K1-B2  
 <400> 30168

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 tggattccgg tgatggtgtg agccacacgg ttccaatcta tgaaggatac acacttcctc 180  
 atgctattct ccgtttggat cttgcggggc gtgacctcac cgaccaccta atgaagatcc 240  
 tcacagagag aggggtactcc ctactacga gcgctgagcg ggagattgtc agggacataa 300  
 aggagaagct tgcttacgtt gcccttgatt atgaacagga gctggagact gccaggagca 360  
 gtcctctgt cgagaagagc tacgagatgc ctgatgggtca ggtcatcacc attgggtcag 420  
 aaaggtttag gtgcc 435



<210> 30169  
 <211> 353  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B3

<400> 30169

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 ctttgcagat ggcattcagg cttatgctgt tgagccgcaa tgaccattg tcctgtggac 180  
 tgctactcat gtttggtaga ttcgtaaata ctactgttat atgcttgaag gcgtgtgttg 240  
 gcattgccat gtgggggttg tgtgactcga tggaaacttt gctgtcttat tgtactttaa 300  
 aatccaataa tttgcgcgat tgcggaaaaa aaaaataaat attttaaaat taa 353

<210> 30170  
 <211> 481  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B6

<400> 30170

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 ttatcttttt ttttttttat tttttttatt tttttttttt tttttttatt tttttctatt 180  
 tattttatgt ttctatattt tttttttttt ctttttttct ttttttattt ttttttgttt 240  
 tttttctttt atttttctct tttatttatt tttctttttt tatattattt ttcttttttt 300  
 tttttttttt tttatttttt tttttttttt tttttatttt tttttttttt ttattttttt 360  
 tttttttttt tttatatatt tttttttttt attctttttt tttttttttt tttttatttt 420  
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<210> 30171  
 <211> 55  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B8

<400> 30171

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<210> 30172

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-054-Q1-K1-B9

<400> 30172

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cagcccaatg caaggtacca caggggaggt gggtcacaca ggggaagggg gggttatgac 120

actgggaggc caaacatgt cacaatgtg gagaggcgga aggggtggcag ccatcttgaa 180

taccagccag tcggacccca aaacaaagct gcagacttcc aacagagcct gagcatggaa 240

gaacgaaccg aggggcctcc tgcttctgga caagcggtca ggcagcgtgg acacaacagg 300

gggctactcc cagcaggccg ctttgtccag cgaaacctg cttctacgcc taccactaat 360

tctcacaaa atgaataatc ttccgcggt gccacatcca ctgagcttca ngaactcgcg 420

cttggttggtg gccgttcaca acagataggt ttggatgcgc ttggg 465

<210> 30173

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C1

<400> 30173

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aggatgtgta agagtatgca ggctttgtgg gaagatttta taagaacatg cgaggttcgt 120

ttgaagaatt taactggttt ctatggataa aagccagctt gtgtggactg tttcatctgc 180

aatctctgta gaagcaacca acagagtacg gattaaaagc caagtgaata gactgtatga 240

tgtaaatctt gttgtagatc ttcataagtc ccattgttaa cactataaat atgttaatcc 300

tccatgcggc tttcct 316

<210> 30174  
<211> 387  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-054-Q1-K1-C10  
  
<400> 30174

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cctgccgcag cagccacacc ccgtccgtca ccagaggaag aggaggagga tgtcgggatc 120  
gaaggtgtac acccttgagg aggtggccaa gcacaacacc aaggacgact gctggctcgt 180  
catcggcggc aaggtgtaca atgtgaccaa gtttctggag gaccaccctg gaggtgatga 240  
tgtcctgctg tcttccactg ccaaggatgc taccgatgat ttcgaagatg tggggcacag 300  
caacaccgtc cgtgcaatga ttgacgagtt ccttgtcggt gagattgatt ccgccacgat 360  
tccaattag gtgaatttca cgcccc 387

<210> 30175  
<211> 362  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-054-Q1-K1-C11  
  
<400> 30175

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ccacacacca acatgacaaa ctttccaaac caatcggact aaatccgagc aaccggcaa 180  
aatcaaaactc agctcgaaac cggcttagcg cggaggcaaa ccaggcccaa gggtttcaag 240  
cccccttagg caacaaagga caggacagga acaggaaagg cgaggcactt ggacattggg 300  
gcaaagaggg gaaaaccagt ttgcgaccag ggtttttacg gccgttaatg caatgctcca 360  
cg 362

<210> 30176  
<211> 286

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C12

<400> 30176

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 taaacaagtc atccttcttc acaacaattt ccaatactac ctaatccatg tgtattgtga 180  
 ataaccgcac aagccgtcat gtggtcggcg catcatagta atactacatg acagcctctt 240  
 catcttatta ctaatgtagt acatcatcat ccccgataaa acataa 286

<210> 30177  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C2

<400> 30177

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 aagggtggcg acctgactgg tctgtcgggt gaggggaaca aggcgcagga ctacctctgc 180  
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 ggcacgctgc ctttcagctg ggtatatggt aggggaagtcc aactgtgaaa tcggaaaccc 300  
 attgcgactg cttgagttgg agcatagtct atcatgcacc ctaagacgca tcgcgacgac 360  
 aagacctggt gtgtcgcgtg acatagttgt tcaggttttg accaaatggt ctgggagcat 420  
 ttgttttgcc ttgtg 435

<210> 30178  
 <211> 432  
 <212> DNA  
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<223> Clone ID: LIB3067-054-Q1-K1-C3

<400> 30178

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 caacatccag ggcacacca agccggcgat ccggaggctg gctaggaggg gtggcggtgaa 180  
 gcgcattctg gggctcatct acgaggagac ccggggcggtg ctcaagatct ttctcgagaa 240  
 cgtcatccgc gacgccgtca cctacaccga gcacgcgcgc cgcaagaccg tgaccgccat 300  
 ggacgtcgtc tacgcgtca agcggcaggg ccgcaccctc tacggcttcg gaggctaggc 360  
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<210> 30179

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C4

<400> 30179

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 tatgccattg cattggctct gcttgatgaa ggtaaagttg ttttgggtgt attggcttgt 180  
 ccaaattctc cattgtcatc aataaacaac atcaatggta actcttcggg agataaagtt 240  
 ggtgcctgt tttctgctac aattggttgt ggggctgaag tagagtcctt agatggctct 300  
 ccaccacaaa agattagtgt ttgctccatc gacaatcctg tcaatgcac attttttgaa 360  
 tcctatgaaa gtgcacactc catgcatgat ttgactggct ctattgcaga gaaacttgg 420  
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<210> 30180

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-C5

<400> 30180

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aacctcaaca accaagtttc atgtctgac tcgacgtcca gcttccatct gcctttgatc 180  
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 atgtgcgcat ccagcagcgc aacggcagaa agagtctgac tacagtccag ggtctgaaga 300  
 aagagttcag ctataacaag atcctcaagg atctgaagaa ggaattctgc tgcaatggta 360  
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 atgttgctac 430

<210> 30181  
 <211> 220  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-B1

<400> 30181

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 gcggcgccgg tcctggcagc ggcgctgctg ctgctggctg caggggccgg gacggcgctg 180  
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<210> 30182  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H3

<400> 30182

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 gctgttctca agattggccc caacgagccg tcacagcttg ccattgacct gaatgctcag 240  
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 gagatccttg ttgatggccc tcatgacatt gatcgctgag cttacgtcac tgagacagtc 360  
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aagcccaaca tgggtgactcc t 441

<210> 30183  
<211> 363  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H4

<400> 30183

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gaccgggtcta ctggcatgat cacatatatc ctcatgacat tacatctgac gaactgctgg 180  
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tgctagtgtt ggccaggatc agccacctgc tctgtcattt gacgttgaat ctgatcagct 360  
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<210> 30184  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H5

<400> 30184

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gggacgagct ggccctcgtg gtgctgggct tcctcagctc ccateccctac cagaccacgt 300  
cgcgcttgcg tccgagactg tagatagagt agagcacacc cacttgaccg tttgcgaaca 360  
aaciaaacaca aaaaaaaatc ccctgtacca atccaagagt tgtgggtatg gtgatgtgtt 420  
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<210> 30185  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-H6  
  
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 aaagaatgac cgTtctactc caatcaacag tcatttTgtac tggacaatga ggctgacgaa 180  
 ctgttgatt ctactgaggc agcattgaac ccaactccta ctgaaaagaa gcaggactct 240  
 gctacttctg gctgcagatt gtttggcatt gagataggTt ctgcagtatc accagtggct 300  
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 cagctggca 369

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 <212> DNA  
 <213> Zea mays  
  
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 ggCGgCGgtg ctCGcctCGg cGctcggagc ggagctcacc gcggactact atagcgagac 180  
 gtGccCGcaa gcgctgacca ccatcaagct cctcgTcggc gCGccatcc tgagggagcc 240  
 caggatgggg gcgTcgctgg tccGcctgca cttccacgat tgcttcgtca atggctgcga 300  
 cggctccatc ctgctggacg acaccgacga catggTcggc gagaagaccg cgaagcctaa 360  
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<400> 30187

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gaccggtcta ctggcatgat cacatatatc ctcatgacat tacatctgac gaactgctgg 180

attctacgtg aggcagcatt gaacacaact cctactgaaa agaagcaaga atcatgctac 240

ttctggctgc agattgtttg gcattgagat aggttctgca gtatcaccag tggctactgt 300

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<400> 30188

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ggtgggatgg gcttgagtgg gatgatgagg aagtcaaagc ttcttatgag ccattgttcc 120

gcccattgca ctgaactcag ttttggttgc tagagattct tctgttattt tagaggttgc 180

tcttcctcgt gcatgcagta gatcgcgta attcagagat ggccagtctg cactctgcag 240

tgggtgtgat cgtttgtatt tgtccagctt gcaagtacaa gttgggcgat tctttctttt 300

ttgcccactc cgtgttctat agaaagacca gtcagcatgt gtggcagcca ggaaactggc 360

atatgtaact gtcgaaatct cctgaacaga atggctgggtg gataccggtg taaccatttt 420

ctctaattct cccattctgc tctctatgag 450

<210> 30189

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A1

<400> 30189

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gtgcttaaaa cctgtgtctt acaaaaccca ctgaatctgc cagagttgag gccacatatt 120  
ctactgatat tcaactggag aatgaagaag tagataagaa agaagaggac cagcatgcat 180  
acacaaccaa tgatgatggt tctaaagagt attgtataat gctcaaatat aaatctgcat 240  
aaaataacaa ggcttgattt tttatctaatt gtgcttgaat ct 282

<210> 30190  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A10

<400> 30190

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aaactaaatc atatcgtaat aaatgaatga ttagtataaa ctctgtcat gttcaaactg 120  
aatgattaga cagtatataa agaaaaagat aaaaggaatt aaatatacaa aatatttaa 179

<210> 30191  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A11

<400> 30191

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tacttcattc catccatata ccaatccaat ctcatgattc tataactcta ttattaccat 180  
atctaattat atataaccat caaactctaa tacactctta 220

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A2

<400> 30192

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 accaagcgca ctgcgccc aa gtctgacgat gtctacctca agctcctcgt caagctctac 180  
 cgtttcttgg tcaggaggac caagagcaat ttcaacgctg tcattctcaa gaggcttttc 240  
 atgagtaaaa ccaaccgacc accaatctcc atgcgcccgc ttgtcaagtt tatggaagga 300  
 aaggagaaga acattgctgt cattgttggc acagtcacag atgacaaaag gatccaggag 360  
 gttccagcaa tgaaggttac tgccctgagg ttcacggaga cagcaagggc caggattgtc 420  
 aatgctggtg gcgagtg 437

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 <223> Clone ID: LIB3067-054-Q1-K1-A3  
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 tctgctgacg cggcagccca gccatccaag gagaatccgt ccacccctgg gttgggtcaag 180  
 gcctcgaagt ttaagaagag aaagggtcaag gccaacggtg cgaagcaggc agtcgctgca 240  
 gcagctattg acgagggtcg cccggtaggt gcaggcactg gtgatggcga tgcattctgca 300  
 tcagtggctt taccgcaacc atccgatgtt gccgaggcat tacctgtggt gcaaacgcca 360  
 aagtcaacca cttttgctga ggcattcacct gtggcacaga ctcaaaagcc agccactgat 420  
 gttgaaggat tgggtg 435

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 <213> Zea mays  
 <223> Clone ID: LIB3067-054-Q1-K1-A4  
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agtgtgaacg tcaagtgcta ccgattgggg aacaacaaaa ttggatcagc ctttccatt 180  
 gcagagaact gattatctgg tgctatgctt ctgcaggtag catactgttc aatttggtgc 240  
 tgccatctgc aatcgatttg ctacttgac tgctaaaaag ttgacgaccg agactgaagt 300  
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 tgtcatgttt atttactgat atgctgtttg ttgatg 396

<210> 30195  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A5

<400> 30195

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 ggtcgccgcg caagggcggc gtcaaggcca tctgaccatg gcctgcgatg aaccgcgcgc 180  
 gatgcatgca tcatgtcctg ctagtgttag ctggatcagt tgcgtgctta tttgattatt 240  
 gttatgatgg cttggtagat ccgaattatt aactgactgc aagtagacag acatatatat 300  
 gcgtgtgtgc cttattttct ttactattat atatatgata gttcgtttgt gtgttcttaa 360  
 aaaaatatat ttattattta atttatttat ttatttttta ttttaatttta ttttattttt 420  
 attttttttt 430

<210> 30196  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-A6

<400> 30196

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 ctttggtat ttcttatttt tttctctttt ctttatttac ttttttttat tttcttattt 180  
 tatttttttt ttttttttat tttatctttt tttatttttt aattttttat tatttttttt 240

tttttttttt tttttttttt atcttttatt atttttattat atttttttgt aatttttttt 300  
 tttttttttt tttttttttt gtttttatta ttatattatt attttttttt tttttttttt 360  
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<210> 30197  
 <211> 388  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-054-Q1-K1-A8  
 <400> 30197

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 ccgacctctt tttttattgc atattgatat ctagaataag atcgatccaa atcacttgaa 180  
 tgctaatttt gtcaaaagta tccttggtgtg cttaatttaa ccaaactttg ctaccttccg 240  
 tcattacatg tatttatcag aattcgcaat ttcgtcctat tttgtaatat ggtgaactga 300  
 cctgactgtt tgcttatttg cttgcttggt cccacctttt tccttcaaaa aaaaagagac 360  
 tttttgctca tgagctttga gattgccca 388

<210> 30198  
 <211> 219  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-054-Q1-K1-A9  
 <400> 30198

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 ggaggaggtg gaggactgta tgacgctctt aagatcattt ctcattattt ataagcattt 180  
 atcttgagtc aacaattatg aactgtgatg gtttttaag 219

<210> 30199  
 <211> 363

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H2

<400> 30199

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gaccggctcta ctggcatgat cacatatatc ctcatgacat tacatctgac gaactgctgg   180
attctacgtg aggcagcatt gaacacaact cctactgaaa agaagcaaga atcatgctac   240
ttctggctgc agattgtttg gcattgagat aggttctgca gtatcaccag tggctactgt   300
tgctagtgtt ggccaggatc agccacctgc tctgtcattt gacgttgaat ctgatcagct   360
ggc                                                                    363
  
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<210> 30200  
 <211> 205  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F7

<400> 30200

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aaagaaaaat ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaat aaaaaaaaaa   120
aaaattttat ttatattaaa attaaaaaaa aaaaaaatat attttaataa attaaaatta   180
aatttaattt tattaataat taaat                                     205
  
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<210> 30201  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F8

<400> 30201

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gtgaagtatg tgggagaacc tatgaccacac ttggagtcta ttgcttcttc agcagtgcga   120
gctgcaatca aagttaaggc atcagtcac cttgttctca cctcttctgg acgagctgca   180
  
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aggctcattg ctaagtacag gccacgcatg cctgttctat ctgttgcat tcctcgtcta 240  
aagacaaacc aactgaagtg gagtttcaca ggtgcttttg aggcaagaca atcactcata 300  
gttagaggcc tcttcctat gcttgctgat ccacgacacc cagctgaatc taccagtgt 360  
acaaatgagt ctgtgttgaa ggttgctctt gaccatggca aagcctcggg cgtgatcaag 420  
tcccacgacc gcg 433

<210> 30202

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F9

<400> 30202

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cgcactatgg tggaaattaa aggccgcttc tcagtacat ctgagaatgt ggaccttgca 180  
aaggttcaag aaattccagg gagcagtgcc tcacgtaa at tgcaagtgg aagaattttc 240  
cttggtccct tgttcataag gaactgttac tttgcttttag atatcatccat tttttcaggg 300  
gccttcactg agaaaatcag ccagtgttg cgattgggtca gcaaatgata agacaacgtc 360  
tactaatcat caaaagaagg aactctgcaa tagctctgta tctacatcaa ttctg 415

<210> 30203

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G1

<400> 30203

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gcgcccacca accgcggga cgagtaccag cactgggtca aggacatgcg ccacagcacc 180  
cgggtgcggg acgaggagg ctaccggcc ttgcgctcg tcaacaaggt caccggcgag 240  
gcgtcaagc actccacggg gcagggccac ccgtcaagc tcgtgcccta caaccggac 300

taccaggacg agtccgtgct ctggaccgag agccgcgacg tctgcaacgg cttccgctgc 360  
ctccgcatgg tcaacaacat ctacctcaac ttcgacgect ttcacggcca caaggcccac 420  
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<210> 30204

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G10

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tttgactact catgtgaaca agctgaaagc tgaatacact tcactttctg aagaatcgtg 180  
tgagttaaca caagaaaaga atgagcttag agatgagaaa gcttcactga aatctgaggt 240  
tgataatttg aataatcagt atcagcaacg aattctggtg ctatacccat gggttggaat 300  
ggagccttct gttgtcatgg ggccaccttc tgcataatccc taccagtcgc cagttccaat 360  
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<210> 30205

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G11

<400> 30205

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agaaattctg tactaaacag caaagccaaa cgaatatgta gagtgagcga acagacggga 180  
cgaatcccaa aacgttttcc tactactgcc ctacagcctt cgttcgcgtg atgtagggat 240  
cgagagcgcc ctcatagcgg tggccctccg agcccgatc cgttgtcgaa ctctgtcgatg 300  
tgatccaaga ggtagttggc ggtcagctgc tcattcttgt tgcacgcgaa gaacaacttc 360  
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ggagtcac

428

<210> 30206

<211> 448

<212> DNA

<213> Zea mays

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<400> 30206

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aacttcatgc tgggatgggt tctttgagtt gctctgttaa tcatccatcc atcagatgga 180  
tgtccaaact aataaaaggc actcagtgc accatatgca tatccatgct taagtgcctg 240  
atttgccacg acgtgggata tcttttaaatt ttatcgttct ggtgtgtaat aactaattaa 300  
gaacggcacc ttcattctat ggttgtggtg tggcacttct atctatgggt tttgtatttg 360  
gaccacgaat gttgtaattt gtaaaaaaaaa atttaaagat ttatctatgc tgccggtgct 420  
gcggtgcata gcccggtgca tagaatcc 448

<210> 30207

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G2

<400> 30207

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attcgtaccg gctatcaagg agacgttggg tgatcctgag gagcgcttag gtgctgatat 180  
cattcagaag gctttggtgg cacctgcagc gctgatagcc cataatgctg ggggtggaagg 240  
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ggacaagcac gagaacctgg tggaggctgg tgtgatcgac cctgtcaaag tgactaggcg 360  
cgccctgcac aacgctgtct ccgtggctgg aatgggtgctg actaccaag caatcgatgt 420  
gga 423

<210> 30208  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G3

<400> 30208

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a t a t c c c t t t   c t c c t g c a t c   t c t g t t c t g a   a g a g g t a c a g   c g a a g g c g a c   a t g g c g g c g t   120
a c a a g a t g t t   t t c a c g g g c a   a a g c t g g a t g   a t g g t t t g c t   g g a t c a g a t c   t t c a g g g c t c   180
g g a t a g a g a c   g a t c c g g a t c   a a c t g g g c t g   c t t a c c c g c a   c t a c c a a g c c   c c a g a g g a g t   240
t t g c t c c g a t   a g c g t t g g a c   c g g a a g c a g c   t g t a c t a c g t   g a a c a c c t t t   g a g a g c g c c t   300
c g a g c g c c a t   a g a a a c t g g t   g c t g t a g c a g   c a g a a a a c g t   g g c g c g g c t c   a t c a t c t c c a   360
g g c t c t c t c t   a c t a c c g c a g   g c a c a g c a g c   a g c a g c c t c a   t a t c a t c a a g   t c a t t c c c c g   420
a a c a a g g a a t   c c                                     432
  
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<210> 30209  
 <211> 405  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-G6

<400> 30209

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t c c t c c a c c a   a c c a c g c c a c   c a t g c a t c t t   a t t c t a t c a a   c t c a t t c t t a   t t a t c a a c a t   120
t a c a a t a a t a   a t t t t c t t c c   t a t c a a c a a c   a t t c a c a t c t   a c t a c c t a c c   t t t c t g c t t a   180
t a t a a t t a c a   t t a c c t c t a c   t a t c t a c t t c   t c t a t t a a a t   c t a c c t c c t a   t t t t c t t c a a   240
t a a t t a t c t c   t t t t c t t t a c   t c t t c t c t t a   t a t t c t a t c t   a t c a c a t t a t   a t t a t a t t a t   300
t c t c a t t t t a   t t t t a t a a t t   c t t a a t c a t c   t t t c t a a t t c   t a c t t t t c t t   t c t a t t a a t t   360
t t a t c a a a c t   a t a t t a t t a a   t t a a a t t t a t   t t a a a a a a a t   a a a a t                                     405
  
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<210> 30210  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-G8  
  
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 aaagaatgac cgttctactc caatcaacag tcattttgtac tggacaatga ggcagacaag 180  
 aactgaatcc tactctgcta gcattaacaa agctcctact gaaaagaagc aagaatctgc 240  
 tactttctggc tgcagattgt ttggcattga gataggttct gcagtatcac cagtggctac 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-G9  
  
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 aatgggtaca tatttaatat cgtatcaagt atacggtaaa tttatagggc caataaacca 180  
 agcatacaat acaattatgt ttactaatg aaggaaagca aaagtcgtta ttcaagaact 240  
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<210> 30212  
 <211> 261  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-H10  
  
 <400> 30212  
  
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cgatgagtat acaaaataac ggagctctac tcgggtagaa acctgatggc ccgccgcttc 120  
ccaccactta ttcctttcag ttccacacac tctccattc tacgtctacg cctatacgct 180  
gccttacctc ctgcttcgag ctgctcgcg taactgcgcg accatcaatg ctactatgc 240  
agtatctacg ttcggtggca t 261

<210> 30213  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-H11

<400> 30213

ctgaacaagg agaagttccg ggcgctcgtc ctcaactccg tcgtgctgct gacgtttctca 60  
gccgcgctcg tctgcgtgaa ccacggctcg gacgagaccg gaagcagcat cccgaagggg 120  
aagttcccgg cggggttcgc gctcacgctg tcggcgctcg cgctcttctc cctgatcctg 180  
tccttgacgc agctgacctt cgacgaggtg ctgaagagcg actcgctcca aaccgtgctg 240  
gagatgcagt tctggagcaa caccgcggct gcgtgcgtgt ctgtggccgg gctcttcgcc 300  
tccggggagt gggcacccat ctccggggag atggatgctg acaagaaggg ggaggtggcg 360  
tacgcgatga cgctggcgtc gactggcttc tcgtggcagc tgtgcacgat gggcctcatg 420  
gggctggttg 430

<210> 30214  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F5

<400> 30214

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tttaatttta taaaaatgga aaaaattaaa aatatttttt aaaaaggata aaatcaaaaa 180  
ggaaaatttt tttaaaaaaa aatcattaaa attttaaact tcttatgtaa ataattttta 240  
aatattgact tattaaaaaa cttttttgtc aaaataaaaa aattcacttg aaatgttttt 300

aaataatttta aaattataat ttttttataa ggcctattat taacaaaaat taaaaattgt 360  
cctttttttt 369

<210> 30215  
<211> 295  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-053-Q1-K1-E10  
  
<400> 30215

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aaaaacaaaa acaacacaac tcatcaacac ggacctataa catatactaa aactcaaaac 120  
atacaactaa acacaaaact aactaacata cataacaaca taaaattcac ctccaacaat 180  
tacaacccta tcatccctat ctttgcaact ccccctactc tccttcacta tcaccatcta 240  
tctctccctt ttcttccaca ccatcaaacc cacacttaca ctcttttcca tactt 295

<210> 30216  
<211> 306  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-053-Q1-K1-E11  
  
<400> 30216

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taaaaagcca aattcctaga tcccaaactt cccaaaaagc ctttcctat taacggttcc 120  
tccttgtaa tgtaatagtc ctggtcctcc aaaaggcca cctaagtttc ctcaacgatt 180  
ccaatcccaa aaattccttc cgccagattt ttaagaaggc ccctataacc ccggtttgcc 240  
ctggccttcc taaccattgc caccacccat tccaaatttt ataccttctt tttgttccaa 300  
ttctttt 306

<210> 30217  
<211> 419  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-053-Q1-K1-E12

<400> 30217

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acgtaatagc gataattctg gtgatcgtag ctccaatgga cgtgaccggc gatcggcctc 120  
aggctgggag cttcctggga ccgagcaagg ccgtgatccg aggcgcaacg ggaagccaaa 180  
atcacgggtc atccctatct cctgaagagc atggacggag tagatatata gtagataaat 240  
aaacagctgg tttgtactac tatgcaaggt ttaggttcaa gatcgtttca aggaaacgac 300  
ctgaggtcca ggtaaccgga gtccgtccag cacatcgctg gctattgtct gattctgtag 360  
ctgtacaatg ctctgctacc ttattatccg tgatgtgaaa cattttgtgt cgtccagtc 419

<210> 30218

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E2

<400> 30218

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ccacgcgtcc tgccacacgt ccgcacacgc gtccgggaac cgcaagcctt ccggttctac 120  
atcagatact tgtctagtgc ctacatgcat tccaaatcat atgcaaccac tctgtacata 180  
tctgacttat ctacttagt atgggactgt gctt 214

<210> 30219

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E3

<400> 30219

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agcgatgcgc aacacgatca aggacgagaa gatcgcgtcc aagctggctg ccgacgacaa 120  
gaagaagatc gaggacgcca tcgacgcggc catcagctgg ctggacgcca accagctcgc 180  
cgaggcggac gagttcgatg acaagatgaa ggagctggag agcctttgca accccatcat 240  
cgccaagatg taccagggcg cgggtgccga catgggaggc tccggcggca tggacgagga 300

cgctccggct ggaagcgggtg gccctggccc caagatcgaa gaggtggact aagcggtttg 360  
 tgtcagtctc gtgtgtctgc tgcagtgggt ggctggccca atcgctgctc gatttatcgt 420  
 cgtcttcccc gtgtatccgc gttagaacct t 451

<210> 30220  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E4

<400> 30220

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 tgagagctcc tcaagagcaa cctcggaggc ctcgtaggag agctgcccc a tcatttagca 180  
 acaccagcac tagatcgaga ccagggtgctt taaccgcagc agatgcttgt tcattcagcag 240  
 attcaagagc acacgaagca gtcaaccagc ttttccagcc agtaaattctg actcttgagc 300  
 agcttgtcag gcataagcta agcgaagggc gaaagttcac atgccgcttg cttggtgtga 360  
 ttttagaaga aacagctcca gaggagcttc agaaccatgt cacagtgaag ctttccgtgg 420  
 tggaagttct ccttgagatt gcaaaattct 450

<210> 30221  
 <211> 298  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E5

<400> 30221

gagagagcgg cccccgtgag gagctccac acctcgactg ctggcctgct cgcgtggcct 60  
 cgccccatg tcgcccttta acttccagca cgccaacct accagccaac tgaggaattc 120  
 aggaatgaag aagatggagg acaccatcaa cgctggcatc aactggcttg acaccaacca 180  
 tcttgccata gcctatgaat tctattacaa gattaaagaa ctttagagcc tttgcaacct 240  
 cattatcgtc aatatttacc aaggctctgt ttccctacatt tgaagcttct tctgcatt 298

<210> 30222  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-E6  
  
 <400> 30222  
  
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 gcgtagaact gtatagccct gaatttgtga taccatgccc ttcttgcttg tacctagatc 120  
 gcctgcattt cgggtgccta cctccaatcc aatgctttgc caccagtagg gttgtttttg 180  
 gtattcccta acttgtatcg ttatttcccg tggttttaca agtcgaagaa ctctagggtc 240  
 agctgttatt acacctccaa tatatccatg aatacaggaa tgggcaacta gtctgctaaa 300  
 aaaaaaaaaa agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattataat aaatataata ttatttatat 420  
 taatattaat ttttat 436

<210> 30223  
 <211> 306  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-E7  
  
 <400> 30223  
  
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 actcaatcta cacttcgccc actctgatcc ctttaaccat cactaaccac ccgactacat 120  
 ccatatcctc ctctcctacc aactaacaa tatctaggac accatcgacg cctccatcat 180  
 ctcactccac tccaaccatc tctcctattc ttactatttc tataacaata ttaatgatct 240  
 ctataacctt ttcaacccca ttatatccaa aatttaccaa tgctcttttt cctacatttt 300  
 attctc 306

<210> 30224  
 <211> 383  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-E8



<400> 30224

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cgccgctagt cctcgcgctg tctgcctcc tctcctcgc ccccgccctc gtcttcgccg 180  
tccccactcc aagaagcctg cgcttggggg gccagcagca gcacccgccg gctctgaagc 240  
tcactttctc tcaggaggcg gcgatcgcg cggcgatgaa catgggcagg ccgactgcta 300  
gggtggccgt tgagggttaac gactaccaac cgccggccc caacataccg tacgacctat 360  
ccatggggccc ctgaagagct tgt 383

<210> 30225

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-E9

<400> 30225

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ccggtaccag ggcgtcttct tcggcacgag cgtgcagctg ggccgcggct acctgctcgc 120  
catcacgctg gtgttcaccg ccggcgagta caaggggagc accctgtccg tgcaggggccc 180  
cctgctcggg ttcacgggca ccatcgagcg cgccgtggtc ggccggcacct gcaagttcag 240  
gctggcgcg gcgggtacatgc ttttcaagat gataagcaag ccgacgcctg agacggacgt 300  
caacgagatc aacctgttcg tgctcatgca ccccgctggc aagtactagc gcacacacct 360  
tgagactcga gtgagtggct actaccgcat tgttggtggg cagagggttg gtgaagtgtc 420  
tat 423

<210> 30226

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F1

<400> 30226

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ggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga 120  
aaataaaaca aaataacaat tctataatga cacttaaata aaataaaata gtccgaaaat 180  
ttacaacatt aaaaactaaa aaaacctcgg agtaaataaa cttaatcgac tttaaaaaca 240  
ttaccattac gcaagttaac atattagcaa aaaatacctt atcaaccaga a 291

<210> 30227  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F10

<400> 30227

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tgggggggtca ggacaagatc agacctctct ggaggcatta cttccagaac acacaggggtc 120  
ttatctttgt tgtggatagc aatgaccgtg accgtgttgt tgaagccaga gatgagctgc 180  
acaggatgct gaacgaggat gagctacgtg atgctgtgct gcttgttttc gccaaacaagc 240  
aagatcttcc taatgccatg aatgctgctg agatcactga caagcttggg ttacactccc 300  
tgcgccagcg aactgggtac atccagagca cttgtgccac aactggcgag ggtctgtacg 360  
agggcctgga ctggctgtcc agcaacattg cgagcaaggc ttgaatatca aatgcgaact 420  
gactaggagc tccggatgta tcatggaaac t 451

<210> 30228  
<211> 279  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-F11

<400> 30228

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acaaaaaaaa aagaaaggta atattaaaat ctaaaaacat ataataaaa tcaattacaa 120  
aatcacaca taatctaact atgttaaaga atcaaaagtc aactttatag tgacatctaa 180  
tactgttadc ctctcaaaag tttaccaaata tacaattagc ttcaccttac ttaaataagca 240  
ttatttaaca actttccata cctacctaata tatataaaa 279

<210> 30229  
 <211> 297  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-F12  
  
 <400> 30229  
  
 ctcacgcgtg cgaatatcac actccgcagg tcactttcac ctagtccaac ctcatatatac 60  
 ggatggggtc ctactatatac tcacttatcc tatgtcagct ctttcagcgc tcaccctaaa 120  
 ctctctataa tctatactac cagtcctctc ctcagtctca tctaactctg tcactccttca 180  
 caagatgcac gaaatcacaa taagcttcgc gttacgtaac ttccaagtggt caagaactcg 240  
 actaatccaa ctaatcataa tgatccgtta ctatagctct agatatactc tagatttt 297

<210> 30230  
 <211> 428  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-F3  
  
 <400> 30230  
  
 ggcgaggagaag cttgacaaga tctgaggcgg gggcattggg taacgaaaaa tgggtgcgat 60  
 gtgcaagaat tcagcatgtc tctttgctgc tttatcattg aacttcccat tcttgtcttg 120  
 ctgtcacgtc ccctgggggtt caatactatg atgcacacag catcctggca gctgcaagaa 180  
 ttcattccca gtcgagtcac gaaaatgggt tgcgtgttgg ctatgtcgtg taagcttatt 240  
 cagttattct tgggtgggttg ggtcgggtatc gtgtcattcc ccgttttaggt agctctgtaa 300  
 tctactattc tcattgtgtg tgccttccaa tcagtaatag taatcagcaa ttgtctgcca 360  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaataaaa aaataattaa aaaaaaaaaa 420  
 ggggcggc 428

<210> 30231  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-D8

<400> 30231

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gcgcattag tgggttccat tcttctttgg atcgtctgtc gcgatcgcat tgcccgcgtt 180

tcttttggcc gtcttggttc gttcttgatt cttggacgag gtgggatttg gagagccgag 240

agcggcgcgg cagcggcggg tttctcggtc gggctagatt gtttccatcg agatggtggg 300

cggctgaagg cattcgtcga tggaccacac ttgcgccaaa gacctcgagc gcggcgagct 360

tcgccgtggc gcgcctgagt ttgcggacgg cgacgatgga gacggggaag aaagccagta 420

ct 422

<210> 30232

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C3

<400> 30232

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ctgctacgtg ggcaatggcg cctcccgaca ctgtcgcccc atcatgcttc tcttctcctg 120

tgcttacacg gtctccatga ctgcatagca cttctgtatc aactgggcaa cctgacgttg 180

tcgctgaacc taactcgata tgcaaaacttc aggcctcatc cctcattgcc agcaggcact 240

ctcttaagcg tttccttgcg aaacgcctcg tccggatctt caggcaagac tccatacgca 300

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<210> 30233

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C4

<400> 30233

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gcgaccgccg cggcctcggc cgccgccgcc aaggagcggg aggaggtgca gcggcggaag 120

cagcgcgacg aggaaggcct tcacctgctg acgctgctgc tgcagtgcgc ggaggccgtg 180  
 aacgcggaca acctcgacga cgcgcaccaa acgctgcttg agatcgccga gctggccacg 240  
 ccgttcggca cctcgaccca acgcgtggcc ggctacttcg cggaggccat gtcggctcg 299

<210> 30234

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C5

<400> 30234

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 cctcgccacc gaccgctcgc gaagagatcg atggctcatg ctgctacgct cgctgctgca 120  
 accgcagacg gcgtcctaata cggcctctgc tgcctgctccg tttccgaggc cgacagcaac 180  
 agcaccaaca cgaggcacgc gtcgatagcc caccggcctgt ccttggaacta tctacaaacg 240  
 gatctggctc atggccgagt gcggcacgcg gatgttcgag caagacaccc tgcgcatgga 300  
 cac 303

<210> 30235

<211> 483

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C7

<400> 30235

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 ttgcgctgca agaggcagca taattccact tgatagaact gtttgaaatg gcgaatctgt 180  
 gtgccatcca tgccaagcgt gtcacaatca tgcaaaatga catacaactt gcaaggcgta 240  
 tcggaggaag gcgttgggca tgatatataa tatccattct gattgcatca ttcttggtgaa 300  
 tttgtttgta tgagctagac attagtgttg ttgaatgctg catggttcct aatccttttc 360  
 gcagtctaac atctgtggag ttagtatggt acatggcaac agctgaacat ctgtggacta 420  
 taactatatg gcaacatccg aagatttgtg ctgtgggata actggttggt ttggttgctc 480

ttc

483

<210> 30236  
<211> 326  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-053-Q1-K1-C8  
  
<400> 30236

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gaaggctcca tgattgtagt gctggccagc agcgtaaatt gtgaattctg ctttttttta 120  
tacgtggtgt ttattgtttt agagtaaatt atcatttggt tgaggtaact attcacacga 180  
actatatggc aatgctgtta ttatatacga aagactgata cattcttcgg attgtgagca 240  
aacagtcaga aactgtaat ctcttaggac aactatataa ggcagctgtt gtatcaaaaa 300  
caaaaaaaaa aggatttata ataaaa 326

<210> 30237  
<211> 413  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-053-Q1-K1-C9  
  
<400> 30237

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ctgttgcatg agtacagaaa gtcattggct tcgagaggta gcgtggtcag ccccaaaaga 120  
tttgtgatga caactcaaat atgagcttca acatgctctc ctgaagctcg aagcatcaaa 180  
aggcttcaac aacacagtaa aagggtggaaa tgcaaatttt ttctttggag agagactaac 240  
tactggtatt gagttcttca tgtgcgaata gattgcaatt tataacagtt tattgcttac 300  
tggattagca tcgtctaata agatctggct tcaagttact tagaagtctt acagatcaca 360  
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<210> 30238  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D1

<400> 30238

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cagatcactc aatcaactga ctatgcatat ctctgagacc atcaaccatt tctctcaacc 180  
atgaacctag ttctgaatcc tgatatgctg atctagaagc gtttaaatac catcctattg 240  
tctctcaact ttcatttcaa tcaattcaat gtatttgtca aggatcagct ttcgctttat 300  
gttgattatt attattgcaa tgctccaatc acgaccttca tcctctatcc attttatcca 360  
cattatca 368

<210> 30239

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D10

<400> 30239

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ccgcacctcc tcccacgcat cctttcctcc tcctttggta catctcccgc gcgaccacag 180  
gtggggggcg tgctggagct cccggaggtg gagaaggtac tgcgcgacgt acgagcgggt 240  
gacgtgcgcy tattccccgt cggcgagagc ggtctgcacg gcggggcctg cgcgcactac 300  
atggtcgtcg ccacaggccg ctccgattgg cacgtccgta acatcgcgca tgcgctcttc 360  
tacaagataa agcataagca gaagggtctt gatagaatat tgatgccaag tgtagaatgt 420  
cagcaagccg ggaaaatggg gtggca 446

<210> 30240

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D11

<400> 30240

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<210> 30241

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D2

<400> 30241

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tgtccagggc gaaaaatgcg atggcgagtg cctcgtcaaa tctagtctcc tcgaaggaac 180  
tttcgttggg atagtgtctc tcatcatcct gatatcagga ctcatgtgca tgatggggat 240  
cgatactccc tcgaggtttg aagctcccca ggagtcttga tctctccctt ggactgcaga 300  
atccgcgggg gggttgtgac gagggcacgc ggcggcggtt aggggggccg gtgttctgtt 360  
ggtctgcact gtggatatat atccgtagc tttccatttg gaaggtagga cgccttgtgt 420  
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<210> 30242

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D3

<400> 30242

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cgtgtcatcg agcacttgac acatacgcac cgcacgaaga tgactactct gctcactacg 120  
accaaggcac tacctgaagc tttcagaatc tgtgatatcc atcaagccat aaagtgagag 180  
agaacgaacc ataatagtgt gctgggatgc cgtccgccaa cccgcctaga tatcttcgct 240  
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 <213> Zea mays  
  
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 catggaccag cagtgtgatg ttgcatttcc ttgtgcatca cataatgaga ttgacaaggg 240  
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 cacccaatca acggacttcc cgaacctggt aaccaaccac cattgctttc aaccattaac 180  
 ctagtggtga aaccgatat gctgttctgg aagcctgcga agagcagcct ttttggtttt 240  
 caacttgata ttaattcaat ccaaggattt ttcaaggaac cgctttgggt ttaagttgag 300  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-D6  
  
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gctcggccgt gcctttctac tttagaggat ggattcaaag atgagatgtg gatgtggttt 120  
tctgcaggag ccaagaacat gtgtccctt tttgaccctg gttagagaaa ggaaagtctt 180  
gtagcctctt ggtaggctgg ggtgggtggg tgtcgtgtgg ctggtacgtg ttagcgtgtg 240  
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<210> 30246  
<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D7

<400> 30246

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ccgaggccca cctgaagctt tcagaattgg gatttgctga ggcgtaaagt gagagagAAC 180  
gaaccagaag agtgtgggtg ttgtcgtcgg ccggcaggcc ttgtgttttt gttgtctgct 240  
tttctcttga atgaagatgt gatgaactct gctgaagatg tagtgtgtat gttgtcatgg 300  
ttcatttttc tattttatgt atctataata tctgtcggag aagctttgat atgaagcggg 360  
atctggttcg gaacaaataa aattgaatta tatttattat tattatttaa ttatttttat 420  
ttattttata ttattttatt ttttt 445

<210> 30247  
<211> 316  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C10

<400> 30247

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taaataaaaa aacaaaaaaaa aaaaacaaaa agaaagaata caaaaaaaaa caagacaaac 120  
aaaaccaaca aaaaaaaaaac aaaaaaaaaaa aaaacaaaac aacacaaaac ttaacaaaca 180  
acacactcac aacaaccacg aaaactcaaa actcttcaac aacacacaaa aaaacaaaaa 240  
taccaaattt ctctatgacc acacactaac taatgatatc caactctcca ccaccgcaa 300

taatgcaacc cacaac

316

<210> 30248

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A6

<400> 30248

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gcggggtgaa gacgaagagc actcgagcga ctttgaaccg gaagaaaacg gtgaggggtgc 120  
cgacgatgag gagatcgatg aagaggacga tgacgggtgag gactctgtga aggcgcagac 180  
ctctacgaag aggaagaggt caggcgacga agaagaagaa gacgacgacg atgggggatga 240  
tgatgggtgac gatgatgacg atgggaggcc accatcaaag cgatagtatg gttagctcta 300  
gttttgtagc tgtgtccttg ggtgtttggt aggtaggtag tgctgctgat gttggtttag 360  
aagaactcat catcacctgg gatatgtgtg tgatttggct tggccgatgg atgaatgatg 420  
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<210> 30249

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A7

<400> 30249

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ttctgtggga agtttgctgt gaagaggaaa gcagttggaa tttgggggtg caaggactgt 180  
gggaagggtga aggctgggtg tgcttacacc atgaacactg ctagtgcggt caccgtcagg 240  
agcacgatcc gtcgcctgag ggagcatact gaagcatgat atagctcttt atattattgg 300  
ggtttcctgt aattgctctt gtcaggcatg ttgtgggggc cttctctagt ggaaatgtgg 360  
aatcactgta ctggctgttt tgccgagaca atgctcctta tatttggttt at 412

<210> 30250  
 <211> 432  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-A8  
  
 <400> 30250  
  
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 cggaacacg agaaaacgtt gagaaatgtt ttgaggaact tgcattgaag attcttgagg 120  
 tgcctagtct cctagaggaa gggctcttctt cgggtgtcaa gaggaacatc ctgaaacaga 180  
 agcaggaaag tgatgcaaag aacggtagtg gatgctgtca atagatgtat gtgctgatcc 240  
 acaccacacg gttggctttc ttcgtgtgag ctgccctgat tgtctgctgt acatgttctt 300  
 gtgagtaaga agggcgagca taattgattt gtacaaagga catgtcagtt tgggtgcata 360  
 gttttcctca tctccagttt agtatagcaa ttttgttgtc gccctatcaa aaaaaaaaaat 420  
 attatttttt tt 432

<210> 30251  
 <211> 356  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-A9  
  
 <400> 30251  
  
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 aggagaagac ctacgatgaa aaggctggga tcggtatgcc cgatctatag ctgcggagag 120  
 ttactgtaa tgtgaccagg acctgactcc ctgtgctgtg ctgtgctgtg cttcccgcgt 180  
 aataacggtg tactagttac cttctttgca gaaaatgctt tctaggaatg agagcggaaa 240  
 tatttctacc atttatttaa ggtcctgttt ggaaacaacc caacagtttt taagacacca 300  
 gtttttatct ttagctttg agagaccaac ttcttgtttt tatgaaagtg ggaatc 356

<210> 30252  
 <211> 414  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-B1

<400> 30252

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tgtgggaagt ttgctgtgaa gaggaaagca gttggaattt gggggtgcaa ggactgtggg 180

aagggtgaagg ctggtggtgc ttacaccatg aacactgcta gtgcggtcac cgtcaggagc 240

acgatccgcc gcctgagggg gcagactgaa gcatgatata gctctttata ttattggggg 300

ttcctgtagt tgctcttgtc aagcatgttg tgggggcctt ctctagtgga aatgtggaat 360

caactgtactg gctgttttgc ccagacaatg ctccttatat ttggtttatg ctct 414

<210> 30253

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B10

<400> 30253

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aggcaggcta atgttacaaa ggtgaatatt tttcttgaat acatgtgcat tttcatgtct 120

ttaactctag atagatgctt gttgatgtgg taaagctgtt gatccttatc ttgctgatta 180

ttatcaaaat ttactcatga ccagtcata cttcatagca ggtatctttc ataaaagggt 240

tgtccttttg ttccattgga gaagtactaa aatgcacagg tatctaccgt gttccatctg 300

ccaagacacc aacgttcaac acaagcagca gttcagatag accaccatca tcacaattgc 360

tcacaggatc atgtcagttc ttacatccac atggtgttcc ttcttgataa cggttagtgc 420

ctaccatgga cagcggctag tacttgc 447

<210> 30254

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B11

<400> 30254

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tcgtgtgttc gagttccagg agctcccgaa acctgaggtg ccgcacccag tgccggagct 120  
gaccaagccc gaggtgccac ctcacccgac agccgtccct aatctcccga aacctgaggt 180  
gcctcatcca gtgccggatc tgctcaagcc cgagctgaca cctcaccgg cggccgtgcc 240  
cgagctgccg aagcctgagg tgccgcaccc aatgccagag ctgcccaagc ccgaagtgcc 300  
acctcaccgg acagccgtcc cggatc 326

<210> 30255  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B12

<400> 30255

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tcttctttct tgctcagcgg cagcgccatc ctgggcctct ccttcctggg tccgtgtoca 180  
tgtttgattc ttatcttacc ggagctgtgg ctaactgaaa gagctgtctt tggttggctt 240  
aacttgtagt acgaccgtat ttattaatta ctagaagacg tttatagagc ttacgatgta 300  
cggcgaggtg atgacatggt ggcatagcgt agtgtaattt ttttttggcg ttcgtctcgg 360  
ccaaaacata gcatacatag tccttggtt 389

<210> 30256  
<211> 448  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B2

<400> 30256

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gttcaagatc ttctgccgcy ccaacgagaa ctactgctg gccgtccgcy acggcgccgt 180  
cgtgctggcc ccggtcaacc ccaaggacga ccaccagcac tgggtacaagg acatgcgctt 240  
cagcaccggg gtcaaggacg aggaaggcat gccggcgctt gcgctcgtca acaaggccac 300

ggtgctcgca atcaagcact cctcggcca gtcccacccg gtcaagctcg cgcctttcag 360  
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ccgctgcata cgcattgtca acaacacc 448

<210> 30257  
<211> 405  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-053-Q1-K1-B3  
<400> 30257

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agttgcgtgg ggaccagct agcagcagca ctcttgctgc cagcgtaa atgtgcagtca 120  
cacacagcct cagtgtccct aacaaccagc gtgggcagaa accactggca atgcgtatcc 180  
cgatgtctta caaagtgaat ggagaagaca ggctggagca agggcacatc agcaactgtc 240  
cttctgggtt gtagtgccac ctgtgtctat tgagttgaga gtgctcgatc agcgtgctac 300  
aagcatagcg tgtgtgttct agatctcgaa catttgcacg tgtgcgtgcg cgctaattggg 360  
ttgtgtacac tggtaattgg tttaggctgc ccattctctt ttata 405

<210> 30258  
<211> 130  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-053-Q1-K1-B4  
<400> 30258

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tggcagcatc tggtcgcggc ggcggctctg gcaacggctc tgctgctgct ggcagctggg 120  
gccgggaccg 130

<210> 30259  
<211> 342  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-053-Q1-K1-B5

<400> 30259

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ccagatatcg ggctcgcagg cgttatgaga tcaatatcac tgctgtatat gaccattcca 120

tgtacaccag ccagttctgc atgaagttag ctgctctaac gaccgctata tgcagtttct 180

gctgcaaagc ctaatccaaa gcacaggctg cgtgtgctta caccatgaac actgctagtg 240

cggtcaccgt caggagcacg atccgtcgtc tgaggagca gactgaagca tgatatatct 300

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<210> 30260

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B6

<400> 30260

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tgctgtcaag cctgcccatt ttggcgtgaa gatcgctcc agatccctgc tgatccttgt 120

gcgcttcac ttcaccgga tcttcatcgg cctgctcgcc aacttctcct tcggcaggtc 180

cctcctgctg aagtaccctg agtttttctc cgctgggctg ttcagcagag ccggcccgac 240

cgaggaagag gtgaagagcg cctcgttcaa gatgtggttt gtcggtcacg gctacagcaa 300

cgtggatagc tcgttgagc tcggaagaag caagccggac aaggagggtga tcaccaaggt 360

ttcgggaccc gaggtcgggt acgtcacaac tccgatcggg ctgtgtcagt gcgctcttgt 420

cctgctgagc cagcgtgcc aacctg 445

<210> 30261

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B7

<400> 30261

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gcggagccgc ttaggccagc cggtcgggcc agaggcatat ccttgcttg gatgatctat 120



ctggtcgctg gaggggtcga aaggacgct tgactattgt cagcgcggga cgcaatgctt 180  
tcagctgtga aattattatt caggcttgaa ctaaaggtag tgtacgaagg tcctacagta 240  
atattattga atcagagaga actgagttta gagggcaaga ggaacaagaa ctgagtttag 300  
ggtgaaagag gatgattaca aacaaatgaa cgtgagagtg agcag 345

<210> 30262  
<211> 466  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-B9

<400> 30262

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agttccaggg gctgtggtcc cagcagagca atggatacag gatgaacgtg aactcaaaag 180  
gcaaaaaaga aaacagtcta ataggaggtc tgcacgcaga tctaggttgc gtaaacaggc 240  
tgaatgtgag gagttggctc aacgtgctga tgttttaaag caggaaaatg cttcacttag 300  
agatgaagta aaccgtatca gaaaagagta tgaggaactt ctatcaaaga ataattcact 360  
aaaggaaaaa cttgaaagca aacaacacaa aactgatgaa gcaggactta acaacaagct 420  
gcaacattct ggcaatgaca tccagaaaaa aggaaactaa tcgagc 466

<210> 30263  
<211> 378  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C1

<400> 30263

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cctttattcc acaaggcatt ataatcagcc ctttgcagag gagagtttcc caggataaca 180  
gaattaacag taacatctgg accgtgttga taaaccacca aatgttcccc tatcatcaca 240  
gacgtctttg gctgctcgtc gtgtgatgta tcattctgcc gtacaaaagg atccagatca 300

ttcttactac tggacagata ttgtatttt ctcatatgtc ttgaaatcaa atttatacat 360  
 tttctgtgtc tatgggtc 378

<210> 30264  
 <211> 142  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A5

<400> 30264

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 tcaacacaca tctgcccac c 142

<210> 30265  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G7

<400> 30265

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 atcaggattc tttcgccgca ggaagagagg caaatgaggc tggccagcga ctacggagac 180  
 agctttgttg gcaaccaagc gtgcagcagc tcggacggag gtcgcccgtg gagtggcacc 240  
 ggcgactaga aatagcaggc gatgtctgag cacaaatgtt tgggtataatc cgtccaacga 300  
 ttgcaagaaa atga 314

<210> 30266  
 <211> 455  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G9

<400> 30266

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caccacccca ccccgcgacg ctaaccgacg caatggcgac gctcacggtt ccttcctccg 180  
tccccggcgt cgccgaggac tgcgagcagc tccacaaggc tttcgaaggc tggggcacca 240  
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gccgcggcta cgccgaggcg tacgggaagg agctgctccg cgctctcggc gacgagatcc 360  
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tgctggcgaa cgaggaggcg aagaagagcc acccc 455

<210> 30267  
<211> 231  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H1

<400> 30267

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gcagctgctg cggcgggtggg tacggaggcg gtggcggcta cacaccggc tactctggca 180  
ccggcacctg cgactactgg aagagccacc cggacgccat catctcgtgc a 231

<210> 30268  
<211> 339  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H10

<400> 30268

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gcgacttcgt ccgcaagtgc tgccgcacga cgcagtaccg gtcggtgtgc gagcagagcc 180  
tggcgtcgta cggcgggtcg ccgccgccgc ggagcccgcg ggagctggcg cgcgccgcgc 240  
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ccatctgcgg catatgctcg aagaaagttt ttgggaacg 339

<210> 30269  
 <211> 611  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-H12  
  
 <400> 30269

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gagaccgagg tggtcaccgc caccggcgag ggcgagtacg agaggtacaa gaaggaggag  240
aaggagcaca agcacaagca gcacctcggc gaggccggcg ccatcgccgc cggcgccttc  300
gcactctacg agaagcacga ggccaagaag gaccccgagc acgcgcacag gcacaagatc  360
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cacgagaaga agaaggacca caaggacgcc gaggaggcca gcggcgagaa gaagcaccac  480
cacctcttcg gctgaccgta gtaccggccg gcgcgcgacc gagctagcta gctccggcgc  540
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<210> 30270  
 <211> 229  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-H2  
  
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cagaacctgg tgaacattaa acatgggaat tctatacatc agcaaacaag gttaactagt  180
aagtgatagc atgcaaccaa acagttatgc tcccaataat acaaatgtt                    229
  
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<210> 30271  
 <211> 352

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H3

<400> 30271

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 cgctcgatct gtaaacgctt tacatgtcgt cgataccaca ggagtacatg gcgggcatat 180  
 agaaccagta tcctatatct ctttgttttc caatacacct ggaaagctga cgaatgaatt 240  
 agtggacctt ggaagcgaag aattttcttg cggaaggaac atgactactg acttggtaac 300  
 atttacagtg aagtatggct gttggagtta caaagagagc agtaccggat tg 352

<210> 30272  
 <211> 221  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H4

<400> 30272

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 aaaaaggaaa aaaataaaaa aaaaaataaa aaaaaaaaaa aaaaaaata aaaaaaaga 120  
 taaaaatata tctaaaaaac attatacata taataaatac cacaagtaat acataaataa 180  
 catataaaac taagtataat atatctatct gttttccaat a 221

<210> 30273  
 <211> 201  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H5

<400> 30273

cccactcgtc cgcggaacgcg tgggaaatta caaaaaaaaa aaaaaaaaaa aaaaaaaagg 60  
 aaaaaataaa catataagta aaaaataaaa aataaaaaaa ataaaaataa aatttggccg 120  
 tcctttttta cggtttccaat tttccttccc ttttcttcta tttttttttt tttttttttg 180  
 tcccccttaa tttaaatttt t 201

<210> 30274  
 <211> 358  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-052-Q1-K1-H6

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 aagaagcggc agcgagcgag gatgccgtgc ctgaacgtgt cgaccaacgt gaacctggag 120  
 ggggtggaca cctnccgcat cctcgccgaa gcctccaagt ccgtcgccaa catcatcggc 180  
 aagcccagag cctacgtgat ggttggttctc aagggttcgg tgcctatggc atttgagggt 240  
 acccaggagc cagcagctta cggtgagctg gtttccatcg gaggcctgaa ccctgatgtg 300  
 aacaagaagc ttagtgctgg catcgcttct atcctggagt caaagctgtc tgttccca 358

<210> 30275  
 <211> 313  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-H7

<400> 30275  
  
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 tggatcaact tgagggtacc gttccaggaa gtgtacgggg acgtccgctg caacctgaag 120  
 gaggcagtec agctggccgg gctcacatgg gaggggcgcg ctactgcgg gctcgacgac 180  
 gcccgcaaca ccgctcgctt tctggcactt ctgatgcacc ggggctataa gttctgcac 240  
 accaactcac tgggtgtggca acctgccgac gctccgcagt caaccgtcgg cacctgtcac 300  
 ttcttcccgg acc 313

<210> 30276  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-H8

<400> 30276

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aggggtaccgt tccaggaagt gtacgggtgac gtccgctgca acctgtagga ggcagtccat 120

ctggccgggc tcacatggga gggacgcgt cactgcggtc tcgacgactc ccgtaacacc 180

attcgtctac tggcacttct gatgcaccgg ttcttcaatt tttctatcac caactcactg 240

gtg 243

<210> 30277

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-H9

<400> 30277

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aagccatttg atgttcgttt tgtgcgacgg tttgcggctt gatcgcgatt ggctcgtag 120

ccttttttgac cgaacgagag aagcagcagc tctgcaaagc tacctccagg ttcattcg 178

<210> 30278

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A1

<400> 30278

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gcgagattgc aaacgctaga tcgggtgtcg ctgtgaatga cgagtgcatt ctcaagttcg 120

gcgagctgca gtgaagagg ctgcaccgct tcctaacttt caagatggac gacaagttca 180

aggagatcgt tgtggaccaa gtcggggatc gcgctaccag ctacgaggac ttcacaaaca 240

gccttcccgga gaatgactgc cgatacgaga tctatgattt cgactttgtc actgcagaag 300

atgtccagaa gagcatgac ttctata 327

<210> 30279

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A10

<400> 30279

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acactgtgca tagtttgaag gaagagtatg agaaaaaacg tgctgaggag gagaaggcta 120

aggaagagcg tgatgcaatg gttcaggcaa agaggagca ccgggagaag tctgaggcga 180

agcggaaaga actgaggag aagatgttca agaagacaag atctggccaa cctgtgatga 240

gataccggat cgagcatctc ttggagactg cactgagcaa gtaacacgat accaacctcg 300

ccttttgaga ccaaagtgtg ctaccaaatt ttgtagctcc gtgcaaccat ttgtttactg 360

taaccgtctt ttgtcgcttc atcgttgtac 390

<210> 30280

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A12

<400> 30280

ttcccgttct tccactctc tctccactcg tatctacact cctacagtta cgattcctta 60

taccatttat catcacacaa tctggattag cttttcttcc attacgatta tactcatttt 120

catgacttca tttcttgcac cttccaatcc aatttcaaga tgctataact ctcttaacat 180

catttctcat attctataat catttatctc gagtcaacaa ttaagaactg caatagtttt 240

ta 242

<210> 30281

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A2

<400> 30281

cccacgcgtc cgcccacgcg tccgcactcg tagagagaag gaaaaatatc cccggaccct 60

agctcccgat ctcgatggcg aaccctcgcg tcttcttoga catgaccgtc ggccggcgccc 120



cgggcgggcgg gatcgtgatg gagctgtacg ccaacgaggt gcccaagacc gcgagagaact 180  
tccgcgcgct gtgcacgggc gagaagggcg tgggcaagtc cggaagccg ctccactaca 240  
agggtccac cttccaccgc gtcacccccg agttcatgtg ccagggcggc gacttcaccc 300  
gcggcaacgg caccggcggc gagtccatct acggcgagaa gttccccgac gagaagtctg 360  
tgcgcaagca caccgcccc ggtgtgtctt ccatggccaa cgccggggccc aacaccaacg 420  
gtcccagtt cttcatctgc accgtcgcga c 451

<210> 30282

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-A4

<400> 30282

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gggaatctcc acattggggg aacaccttta ttgaagcatt ttatcagctt cttttacacc 120  
aatagcttgt acattaaatt gtaaaactta acacatacaa caaagcaact taaaaactca 180  
attcgttttg aactgacac cgtccgttcc aacaatgac acttaactct ccatgttcaa 240  
aaacaacca ttgtcaacaa ctcttccaa agcttcaatt tctgtcttg cttccaactc 300  
attcttgatt ggctttttga attataaatt gaccatgtaa tttgagtttt caaaaacata 360  
tggtttgtct cttttaaac ttattttttt cttgacttct ttcttcttaa 410

<210> 30283

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G6

<400> 30283

aaaaaagcta gctaaaacac aaaacaaaac aaaacaaaca acacaagata tcgagcaaaa 60  
aggcataata ttggatcttg agtgcaacaa agtgctacaa gaagatcagg aaggtcctct 120  
gcaaggtcca agacaagggt agcatcaaga ccatctccta ctactagaag aacaacacgg 180  
tgacagtgtc cggggccctt gactcctagg aggtgccta caggctcacc ttctattcta 240

tcaaggtcat caccgacata cacatctttt ttgtgcttat gcttca

286

<210> 30284

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F2

<400> 30284

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tgatggaaat gcatatcatg gtgaatctgc acccaacaag aaagatgcag agcagaatgc 120

agctcgtagt gtgatcaagt cgatttttagc taagcatgac acttgtagtg tgagaattgt 180

tagatcgaag aaacaactta taactgctgt cagatcttct ggaaacaccc cagctacttt 240

tactcctata cagtttacac ggctgtttc atatgcagca tatggcagac cagatgatac 300

aacacctgtt ttgccaaatg aatcttcctc attagctgtt caacgaggca tcaatgttgt 360

acctgcagtt gggaca 376

<210> 30285

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F4

<400> 30285

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ggcagtatac ctccagaaag acaaaaaagt gttcaacctg agcagggttct ctgcagagca 120

gtttgctgca tatgctgctt cgcttggtct gcctgttacc cccaagatcc gcttcataag 180

ccacaagaag aatgtgtcga agaaggatat ggaggacatt gatatgaaac agatgaaatc 240

cagtttgga catgaagtta ccatcactcc aaagatcaac attgatttaa ctttgtgtga 300

tggagatgat gatatccttt atcccaagaa gccactgca gatgctaata tggatgacag 360

acttgatgat 370

<210> 30286

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F5

<400> 30286

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attggagctc tcgaagaact tgatgttgaa gatgaagata tttatgcac aggttttggc 120  
tatgaacaaa ctgaagtga tattgagcct tcaaaaactg ccaatgacag taattataaa 180  
cttgatgaca gaaaaagagg tttctatctg agctttaaga ttgcctcaa ttctgaatac 240  
aaacttgaac ggtaatgctt cctctgattc atacttttct tcactctgat ggaatagtgt 300  
gaactacctt cgaaagtctg ggctttgggt tttcattcta ccttct 346

<210> 30287

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-052-Q1-K1-F6

<400> 30287

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ccgccgttta ggggcaagac caagtccaag atcttcgact gcacacgtc catggagctg 120  
cagttccctt ctgacccatg ggacaggggt tctgattccg ccaaggagct cgtcaccggg 180  
atgctgcggc gcgaccctag gctgcagctc acggccaagc aggtttttaga gtatccgtgg 240  
atgcaggaac acgcggaccc acaagactcg agcggtcagt gccactagac cggcctncaa 300  
cgggaggg 308

<210> 30288

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F7

<400> 30288

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gcttaagttt tctgcgctag cccctgcagc cgaagtgttt ctgatggttc aaatagcgtt 120

gcagtgcctt gttggtgtta gtccttggtt atcttacatt tgtgagttaa gttggacgtg 180  
ccaaacatat ttaaataatat cctcttgaac gggggaaaga tcatatcaag tcc 233

<210> 30289  
<211> 89  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-052-Q1-K1-F8  
  
<400> 30289

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gtgcgccccac gcgtccgccc acgcgtccg 89

<210> 30290  
<211> 400  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-052-Q1-K1-G1  
  
<400> 30290

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acaattgctc ctttggataa ttagaccttg ggatcccgga ctgcattaca tggcatgtgg 120  
ttgcttgggg acaagcaaca tttcgacggg gcggtaatgt aacatccgga ttctgtgata 180  
tgtgtggtct gcctgaactc tgaagacggt gtgcaagtat aggtaaatga agtctgaact 240  
tctgaagatt ttgatgagca agctgattgg gccatattag ttgtgggccg gaataccggt 300  
gtgtattcat ataagtacta agaccatgta ctcgaacagc agaaaggaaa tattctagac 360  
tttggttacc aaacaaagca tcttaagttg ctttttgggg 400

<210> 30291  
<211> 626  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-052-Q1-K1-G10  
  
<400> 30291

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ggaagcgctcg aggatgttct tcgagacctt ggtgctgacg acgaaggact acatcagcgt 120  
 ggaccaaccg aacccttcg acttcgtgag cgtgaagcca ggcccgaagc tgctcatgtc 180  
 agaattctag atcaacaaag tcagcgtacc cctggcgcgga tacattcctt gttaccattg 240  
 tatccatcat cgcaccgacc agcaacaaca ccgcagatat tcccccaac cacagtacca 300  
 caccctccct cccttccaaa tccatttttg tgtatgttgt tgcagttccc ctcccctccc 360  
 ctgtagcatg tgctgcgctg atctgttggt gttgccaggg cgtctgtccg agtaggatgg 420  
 tggttgtgtt gtaccgtcgg ctatccaaca gtatatagta gtagtacgat tttagcgaca 480  
 ctcgatgaagc ccgccgtgta atgtgctagg gttcgcgctc ccctaagtta ctgtcgcttt 540  
 agactggcta aagcccgtag gaattgtata cgacaaggac agggacagcc cgagatgatg 600  
 aatgatgtat tgatgtgcct gtttga 626

<210> 30292  
 <211> 547  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-052-Q1-K1-G11  
 <400> 30292

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 agaagcgagg cgccggcact cgcaaggatg aggtggtgac acgcgagtac actatcaacc 120  
 tccacaaaacg cctccacgga tgcaccttta agaagaaggc accaaatgcc atcaaggaga 180  
 tcaggaagtt cgctcagaag gccatgggta ctactgatgt ccgattgac gtgaagctca 240  
 acaagcacat ctggagcagt ggtatccgca gtgtgccgag gcgtgtccgt gttagaattg 300  
 cccgcaaccg gaacgatgag gaagacgcca aggaggaact ctactctctg gtcacagttg 360  
 ctgagatccc accggagggt ctcaaagggt tgggaactaa ggttggtgag gatgaggatt 420  
 aagccctgta taccatgaga taaatttgag aatgttgctt gagcttattg ttatctactg 480  
 ccaatgactc atgtaataga agcttcgaga cttgtctcct ttcaagtaat ccaaatatcc 540  
 acatggt 547

<210> 30293  
 <211> 610

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G12

<400> 30293

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gagggctctt cgccttgata ctggtaacta ctcattggga agtgaagctg ttacccgcaa  120
gaccggtatc ctgcacgtgg tctacaatgc atcaaacaat gagcttgtga ggacacaaac  180
ccttgtgaag agtgccattg tgcaagttga tgctgccccca ttcaagcagt ggtacctcac  240
tcactatgga gttgacattg gtaggaagaa gaaaaccctt gctgcaaaga aggataatgc  300
tgagggacaa gaggttgagg cagcagctga ggaaacgaaa aagagcaacc atgtcacgag  360
gaagcttgag aagcgcaagg agggacgtac ccttgacca cacattgagg agcaatttgg  420
cagtggacgg ttgctggcat gcatttcttc ccgccctgga cagtgtggcc gagctgatgg  480
gtacatcctt gagggtaaag agcttgagtt ctacatgaag aagctacaga ggaagaaggg  540
caagagcgct gtaacttaga gcatttctcat ggattgtctt gcaccgaaat gtgtgtcctg  600
atgagtacac                                     610

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<210> 30294  
 <211> 369  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-G2

<400> 30294

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cccacgcgtc cggagaaaat tacgaggaca acaatgggta catgcctccg agttatgaga   60
gaaggaacat cctctggagg aggattgaga atgaaactca aacagtttca caaaagcaca  120
acatcattca ctgcccttga caagaactat ctactccat tttttaccag tcagacagat  180
gatgataacg atgacgactt cagtcagcaa ccccaaaacc gaagactagc tttttatgat  240
caatagcggg atttgatact ctacatatca agctaaatac acggagcaga actgacgtgc  300
atgactatgt ctatgtgtga ttgggtcgaa caaaatatag caagagcata cttagttgag  360
ttgcatatg                                     369

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<210> 30295  
 <211> 300  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-G3  
  
 <400> 30295  
  
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 aaaaaagaga aaaaaagaaa aaaaaaaaaa aaaaaaacaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg gggccactta 180  
 aaaggatcaa agtttattaa cccagtaatt aaaataaaaa attttataaa agggcaacaa 240  
 aaattaaatc aataggcctt attttaaaaa attttaaatt tgaaaaaact tggatttacc 300

<210> 30296  
 <211> 262  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-G4  
  
 <400> 30296  
  
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 tcgtcgaaag ctaaggaagt gagggaagag ttatcggaac aattgaagga agctcgtggc 120  
 cagaaagatc acttcaagca gtgaagctgg ttccacatc gattcagcaa gatgatactg 180  
 acaatcttgt tacgagttta gtccttgtct ggggtactatt tatgaatgac attttggatg 240  
 ttattcaatg gaaattagtt tt 262

<210> 30297  
 <211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-G5  
  
 <400> 30297  
  
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 tgggggtgga tcttgagtgc gacaagtgtc acaagaagat caggaaggtc ctctgcaagg 120  
 tccaagacaa ggtgagcatc aggaccatct cctacgacga gaagaacaac acggtgacgg 180

tggtccggggcc ctctgacgcc gaggagggtcg ccgacaggct caccgtctac gccggcaagg 240  
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<210> 30298  
<211> 697  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-052-Q1-K1-F12

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agaagatatt gaccaatata gtggagaaga atattctgag tgatgaactg taaatcataa 120  
ttatcttgca ccaacgaatt ttatcagtac atgtgaagcc ttaaaagggt tcaagcaata 180  
ggcacaagtg gtttcatggt gcatggtcat gcagtgaag aaaatgtctg acaacaagag 240  
gacattgggg cttggccaat ttgttgatct ctgtagtgat aatagaaagc gtcacattgt 300  
tctaaagaag ttgtcttcaa agtcttgat gatgcgtata ttgcagttgc tccacatggt 360  
ccaggatagt gaaatcttat tcatggttgc ctgataaagt gtggaattat ataaattttc 420  
agcataaatt gttttattat taacgttcgt ttttgccata aataatgcat aagtatatga 480  
gatgataaaa gggtaatcat gaagcattct gtgggtccgg ggcccttaag ttgcaattct 540  
attccagcac anagtgacaa tgatatgatg acttttggtc tgggtattatt aattctggac 600  
agtaattcag tagctgtggt aacgggcaaa aaatttttcc ccccccttt tttttccac 660  
aaaaaaaaagg gggggggggg ggggggtttt tttttt 697

<210> 30299  
<211> 297  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D8

<400> 30299

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catgggtatc ctatccaggg gcaatcgaat atagattttc ttgtggcgtg gccaaaggcg 120



gtgccgagcc tgtaccagta cgacgactca ggccagaaca cacggcgtat ggtatggtac 180  
acagcaaggc cgtgttggtg ctgtaagttt tgtaatttct gtttccttct tctcggttc 240  
gcagcatgca gttgctgtat atgatggaag aacactctgt tactgggcat gttgcgc 297

<210> 30300

<211> 629

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D9

<400> 30300

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cagctaattt ggattgcacc gagtgggtgt agagatcgcc caaatccttc aacaggagag 120  
tggtaccggg gcaggcgctt tttgattcat ccacagtgga caatatgagg aggcttctgg 180  
agcatgctgg tggttctggg cacatatatc cactattatt actgtgctac gaggttatgc 240  
ctccaccaca acaggtcgag aaagagattg gtgaacagag ggtgatatcc ttccatggag 300  
taggcttggtc agcaactgaa gaaacaaagt atggggatat tacttgtcat accaagaatg 360  
ctgatgaggg aaggagagcta ttcacaaata ctttgtacaa ctgagttgtt aatcagtaca 420  
atgtcctcaa atctgctatc tttagagatc gtggagcagc tgtatcaaac aatgccatct 480  
cactgtcaca accatggcga tgaatgttag ctttcccagt ccagattcga tactgaagtt 540  
accttttcag aagaacaggt gaactgcaat tgtgcaaatt ttctgggaaa aactcttgaa 600  
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<210> 30301

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-052-Q1-K1-E1

<400> 30301

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ggcggcccag ctggtggctc tcgggctagc gtcctctgc gctgtcgccg gccgggccgc 120  
cgcgcagaac tgcggctgcc agccaaacgt ctgctgcagc aagttcggct actgcggcac 180

gaccgacgag tactgtggcg acgggtgccg gtcggggcccg tgccgtctnc tcaagctctt 240  
cgcccccttc gccgtccttg gcagctcgcg caagcgccgc gctgcctccg cggg 294

<210> 30302  
<211> 663  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-052-Q1-K1-E10

<400> 30302

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tgctttcttcg tcgtcgccgg ccgtcgtcac cactttttga cgcgctagcg cctagctgct 120  
gctcgtttctt ccacctcgcc agtctccatc aacgcggctc cgtcgccctc acgcacgcgc 180  
gcatagatat aaacataaac gccggctggc actggtagac attcttcact cccacgctag 240  
ctacgcccac tccccccgcg ctatgcctat ggccgaccgc gtccacccca tgccatctcc 300  
ctcctccccg ccgcttccac ctccgccagg gcgacggcga cctgacgccg accccgccac 360  
ggagacgacg ccgctgcacc cgtccttctt ccacgccatc cgcggcctcg ccaacgccac 420  
cgccaccgcc accggcgccg cagccccgct ctcccccgcg ctcgacgccg ccgtgcgcgc 480  
cgacaacggg cgcaacggga aggtgggcgt ggagtaccgc gcgggcggcg ccgtcgcggt 540  
gtcctacgcg gggcagcggc tggccgcggg cccgtggccc gcgttccgcc aggcgccgcg 600  
gaacgtcacg gtggtcgcg gccgttcttt agnaaagggg ggaaaaattt tttccccccc 660  
ccc 663

<210> 30303  
<211> 590  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-052-Q1-K1-E11

<400> 30303

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attgaagttt cgggttcacg agcaaaggat gttgctaagc agctcaagga acaacaaatg 120

gtgatgccag gccatcgtga gtcgaacttg cagaaggaac ttaaccgata catccccact 180  
gctgctgcat ttggtggtgt atgcattggc gcattgaccg tcctggctga tttcatgggt 240  
gcgattggtt caggaactgg tatattgctc gctgtgacaa tcatatacca atacttcgaa 300  
acctttgaga aggaaagggc gactgagctt ggtttctttg gtttttgatt agtagctgtg 360  
gaaccttaac ttggctatag ctgaattttc ttgtaagtcc ctgtagtgct tagccagttg 420  
taacttaaag agttctgttt aagttgcctt cttgcggcca caatcatgta gcagaatgtg 480  
cgtgtgtttc aagttagcgt gggggtatgt gcatctgtcc aaagagtctg caatttggca 540  
accggatatt ttgntatcaa tttcagttac ttcgaactga gcatgttctc 590

<210> 30304  
<211> 706  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-052-Q1-K1-E12  
<400> 30304

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gctgctgttc gtggcaggcg ccgcgctgct cggcgctcggc ggcgccagcg cgcagcaggg 120  
cgtgtggagc atcatcactc gtcccatgtt ccagagcatg ctgagccacc gcggcgacag 180  
cgggtgccag ggcgccttct acacctacga cgcgttcacg gaggccgcca gcaagttccc 240  
cggcttcggc accaccggcg acgagcagac gcgcaggcgg gagctcgccg ctttcttcgg 300  
ccagacgtcc cagcaaacca ccggtggatg ggcgactgct cctggtggac cgtttgcctg 360  
gggatactgc cgggtgaagg aacagaaccc gacggacceca ccctactatg gacgaggacc 420  
catacagcta actcatgagt acaactacag gctcgccggg caagcgctga acctgaacct 480  
ggtgggcaac ccggacctgg tggcgagcga ccccggtgta gccttcaaga cggccatctg 540  
gttctggatg acgccgcagt cgcccaagcc gtcgtgccac gccgtgatga ccggcgccctg 600  
gacgccgtcc gncaccgaac cgggccgtcc cgggggggtn ngagaggggg gggggccccc 660  
cctttttttt tttccccccc ccccccccc cccgccgggg gggggg 706

<210> 30305

<211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-E3  
  
 <400> 30305  
  
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 aggaaagaaa ccccatgagg agcaatcgag cagcatcccc atattgacgg agccaaacag 120  
 atgatgcctc aggacaatga tttggtacat gcgcgccctt accatcgag cgthttcttt 180  
 cttcttgctt tgtagtggg ctacctatac tgctttgttc ttcctttcta attgccttcc 240  
 tatgatcttc cctagtctta gatcgaga 268

<210> 30306  
 <211> 375  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-E4  
  
 <400> 30306  
  
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 gagggcgcaa gtgctacgag aacccaagc acaaggctac cgctgtcccc gccgacgaag 120  
 aagagatctg cgggtgccact ttcaagggtg tggaagggtc tactgtcctg acggcgctgc 180  
 actgatctat catcatcagg cggaggcgat gcgatgatga tgcagaactt tgtacatgcg 240  
 ttggtggatg gtggtgtaac atagtggctg ccaacaagtc atgctcatgc aaaccgatga 300  
 atctatctct gtatcatcga tctcgggtgc ttgctagtcc agacttcaga catggctata 360  
 tatatatagc tgggg 375

<210> 30307  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-E5  
  
 <400> 30307  
  
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gtcggtagct cactcgatcg cagagggccac gctgctcaag ttccctcaga tctccgcagt 120  
 ccgagtgaag gttggcaagc ctcacgtcgc ggtgcgaggc gttctggact acctgggcgt 180  
 ggagataacg aggcacagaa agaaagaatg agatgctgta cacatgtggt gatggggagc 240  
 cagttcaatg ctgatggcac tgcggccata accataatcc acgcacgctt gttgcttggt 300  
 ggcaactagg catatccctt tcacctttg 329

<210> 30308  
 <211> 291  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-E6

<400> 30308

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 tctgtatctc actcgatcgc agagggccacg ctgctcaagt tccctcagat ctccgcattc 120  
 cgagtgaagg ttggcaagcc tcacgtcgcg gtgcgagggc ttctggacta cctgggcgtg 180  
 gagataacga ggcacagaat gaaagaatga gatgctgtac acatgttggt atttagagcc 240  
 agttcaatgc tgatggcact tgtgtcataa ccataatcca cgcacgcttg t 291

<210> 30309  
 <211> 355  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-E7

<400> 30309

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 cgatcccgcc gccggtcgcc ctcatacttc ctcgtcactg ccttcgtttc tctttccaac 120  
 aatcaagatg agccgtggcg gtagcgcggg tgggtggtcaa agttctctgg gttacctctt 180  
 tggaagcggg gagcccccca aaccagcagt ggcaccagct gtaagtgtc cacctgtctg 240  
 tgcaagtgtc ccacctgtg agaaaccacc tgctgcaaag cctgatggca ccagtcagat 300  
 tgctgtctggg gttaccagcc aaaccaatta ctaccacaag gccaccgtc aaaac 355

<210> 30310

<211> 57  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-E8

<400> 30310

tggagtttta cattaataaa aacaaaatta aaaaaaaaaa aaaaaaaaaa ggaaaaa 57

<210> 30311  
<211> 573  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-052-Q1-K1-E9

<400> 30311

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cctgaggagg cagtgatggc ggccacgatt cagtacaacc ggagcaacc gcggtgaag 120  
cggatcctgc aggaggtcaa ggagatgcag tccaaccct caccgactt catgtccctc 180  
cccctcgagg aggacatctt cgagtggcaa tttgctatcc ttggtccgag agacagcgag 240  
tttgagggtg gaatttatca tggcaggatc cagctacctt cggattatcc attcaagcca 300  
ccgtccttca tgctacttac gccaaagtga cgctttgaga ttcagaagaa gatttgcttg 360  
agcatatcca attaccacc tgagcactgg cagccttcat ggagtgtccg cacagctttg 420  
gtagccttga ttgccttcat gccgacgaac ccagggtggg cattgggctc actggattac 480  
aaaccagaag acagacgagc acttgctata aaatcacgtg aggtgccgnc gaaatttggc 540  
tccccacaac gtcagaaact aattgatgag atc 573

<210> 30312  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F1

<400> 30312

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aggagacagc aggagtatga gaaatcggca gctggaaggg cagccaaagc acagatgaaa 180  
gcaatgaagg aatcaaagac atcaaaccaa ggtggagagc cggttcttaa gtggcagatg 240  
ggatcatgag tttcgtttct gttgatttgc atccctccgc ttacttttga tggccgacag 300  
aaaattgatt gcgactaatt tctgatagga tgcactgtga ttgtgtgatt atgccagtga 360  
agtggacatt cgggttacca tctgctatgc tggacatgct attccataga ct 412

<210> 30313  
<211> 327  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-052-Q1-K1-F10

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gagatggccg acggggagga cgccgccgcg cgcgccggcc ggccgtcatc acagactacc 120  
gcaagaagct gctcaactgc agggagctag agtcgcgcgt cggcaccgtg agagaaagcc 180  
ttaaaaactgc aaagaaggat tttaaccaaga ctgaggacga cttaaagtct ctgcagagtg 240  
tggggcaaat aattggagaa gtactccgac ctcttgataa tgaacgctnt atcgtgaaag 300  
ccagcaatgg tccccgatac gtggtcc 327

<210> 30314  
<211> 331  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-D7

<400> 30314  
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gaggttgccg gggacagcgt cagtccatgg cggagcttgt gggaccgcgc gtctacagtt 180  
gctgcacttg ccggaaccac gtttgccttc acgacgacat catctccaag gcctttcagg 240  
ggaggaatgg ccgtgcgttt ctgttctctc atgccatgaa cgtagtgttg ggggcgaagg 300

aagatagaca cctcatgaca gggctacaca c

331

<210> 30315

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C3

<400> 30315

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ccccctgctcc caagcctccg acgcccgaagc cgaccccgcc gacgtacact ccaagcccca 120

agcctcccac acacccgact cccaagccga cccacccgac gtacaccctt tccccaaagc 180

cttcgacgcc caagccgccc gccaccaagc cgcccaccta cactccgacg ccgtcgggtg 240

cttacaccct cagcccgtcg tcaccatact actagaaagc gatgcctacc ataccacact 300

gctgtcagtc tctggagcat ttaggtgggc tggatcaatg gaaagggtgt 350

<210> 30316

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C4

<400> 30316

cccacgcgtc cggctactgt accggccccg gcctcttggt taatctgaaa tgctcattgg 60

atatccgctt acgaaacgca aacacgtgct ttggcacgtt cgtcgtcgaa aagagaagag 120

aataataccat ttgctctctt tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aatataaaaa aaaaagaaaa agaaaataaa aatattatatt 240

gttataaaaa ataagaaaaa aaaaaaaaaag gggggg 275

<210> 30317

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C5

<400> 30317



cccacgcgtc cgccacgcg tccgccact cgtccgaaaa aaaaaaaaaa gaaaaaaaga 60  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 ataaaaaggg atgaatttt 139

<210> 30318  
 <211> 345  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-052-Q1-K1-C6  
 <400> 30318

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 cttggcttga gctggtgagt cacaggagct tcatgccaaa actgctgatg tgcaattcac 120  
 agaaaggttg gccatttttt cagegactgc ttgttgctct tctcaagttc atggaaccat 180  
 atctgagaaa tgctgaactc ccagaggcga tggacctttt atacaaggga actatgcgag 240  
 ttctgcttgt actactgcat gactttcctg aattttctttg tgattatcac ttcagtttct 300  
 gcgatgtgat tccttcaagt tgcattcaaa tgcgcaatgt cattc 345

<210> 30319  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-052-Q1-K1-C7  
 <400> 30319

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 aaaaaaaaaa aaagaaaaaa ttgaaaattt taaaaataaa aataattaaa aaattaaaaa 120  
 caatattatt atattatttt tttaattaaa tttatttttt attttttaat ttttttattt 180  
 tttttttttt ttttttttat ttttctatat ttttttattt tttttttttt taaatctttt 240  
 tattttctat acttattttt tttttttttt tttccttttt tttccttttt ttttttttta 300  
 tctttttttc tttttttttt ctccatcatt attttttttt ttttttttta ttttcatttt 360  
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<210> 30320

<211> 258  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-C8  
  
 <400> 30320  
  
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 tattttttatt atctgtggat aaacatttga tatgcaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaagggaga aaaaaaaaaa aaaaaaataa agaaataaaa caaaaataaa 180  
 aaaatgataa ataacattta ttgccactaa tcccaattta taaaaggaga aggtaaatca 240  
 ttgaaaaaaaa cactaggg 258

<210> 30321  
 <211> 454  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-C9  
  
 <400> 30321  
  
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 gctgcacctg cacgccccgg cggcctcctg cttcccgcac ccgccgtcgc cgtcgccttg 180  
 cccgtcgccg ccccgcgggg acgacgccac cacgacgccg ccgccgccgc cgccgcacct 240  
 gcaggcggtg cggctggtgg gctgcgacgg ggcggtgcgc gcgtacgctc cgccggtgac 300  
 ggcgcgggag ctgatgcagg cgcacccgcg gcacctggtg tgccgcgccg acgcgctgct 360  
 catcggcgag aagatccccg ccgtggcggt tgctcgatga gcttggtgcc ggtgacgcct 420  
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<210> 30322  
 <211> 188  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-D1  
  
 <400> 30322

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 aaaaaaaaaa aaaaaaaaaa aaaataaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcgac 180  
 cgatttaa 188

<210> 30323  
 <211> 601  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-052-Q1-K1-D10  
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 ccgcaccgct tcgtcgccgt cgctcctcgtc gtccctgtcg tcggctctca gcctcggcct 180  
 ccaacaggcc gccaacgccca acgaccaccc gaggtgggtc ttgcaccggg acttgatccg 240  
 gccgtccagg ccgctgcgcg gacacgcgtg ccacggcctc ggcgccaccg gtggtggtgt 300  
 cgctgtccag acgacgtcgc cgccgccact accgccgagc tcctcgtggg gaggagcgca 360  
 gaattcgggc tataggactg atatagatgt cgatacctcg ctccatctgt aatctcttct 420  
 ataataagca cgtatggccg tgctgntctt tcgttgcttt tttttttggt atggcttgtc 480  
 agtttccggg ccttatttgc agctagctag cactacgtac ttcttctgtc gtctcgcggc 540  
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<210> 30324  
 <211> 601  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-052-Q1-K1-D11  
 <400> 30324

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aggccccaag ctttacatgg actaagcctc catttgtttt tgcacctcga gtttttgatc 180  
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 gcatattata ttagttgatg gggcaccccc tttagtttta ctcagaaatt gatgattgac 300  
 gcgtcggcct gggaaaagaa tgaacccgtg cagttctgaa aaagcgttta ctccatccag 360  
 ccagctaact taatgtgcag ctgaaaagtc ggcatgtaga agaatgtgga ggataacgtc 420  
 ctttcttttg tttctcgtcg ttaacttgag actccgaggg cgaatgcagc cattgaatcg 480  
 tcgtaaatgt tacatcagtt gttgttttgt taataggttt ttttatgtct tcgctagcgc 540  
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 g 601

<210> 30325  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-052-Q1-K1-D12  
 <400> 30325

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 cggcgggtgtg cctctgcacc gtcctcaggg ccaacgtcct gggcatcaac ctcaacctgc 180  
 ccatcaacct cagcctcctc gtcaactact gcggcaggcg cgtcccctcg ggcttccagt 240  
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 ctgctagtat acgtacgtac gttgatatat atgatgtagt attatatata tgtccatgca 360  
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<210> 30326  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-052-Q1-K1-D2  
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 tcaagcctga gatgatcggc cactaccttg ctgagttctc catctcctac aagccgggtca 180  
 agcacggcag gcccggtatc ggtgccaccc actcctcgcg gtttattcct ctgaaatgag 240  
 ctgttactcg gctctttagt atcccaagag tccggttgca atgttcattc agatttttct 300  
 acttcttttag tatcccaaga catttgtggt gttccattcc agcttaagaa ttcaaagctt 360  
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<210> 30327  
 <211> 351  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-052-Q1-K1-D3  
  
 <400> 30327

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 cgtcaatgca tgtacatatc acatatgggc tagtttagtag ttaattagga gtacaattga 180  
 taaactacca catgtgacag tgaacagtat ttttcatctc gtgcagcaca caggaatctt 240  
 attcttgacg atctccagtg attccaaaga ctaaaacatg ttcaactgtc ttgtgattga 300  
 ttccttgacg gcacatcaat cgacctgggg attgcgtaca ttcttatgct g 351

<210> 30328  
 <211> 219  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-D4  
  
 <400> 30328

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 atacatgaat cggtagcact ggccatgtat attctatcca gtagcaatct aatatagatt 120  
 ttcttgatc ttcataaca tcggcacctc acctgtacac atacgacaac tcatgccata 180

atacacgtac tattgttttg ctcacaccta ggccatttt 219

<210> 30329  
<211> 51  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-052-Q1-K1-D5  
  
<400> 30329

atcacatcat actatttgcg gatataaag cttaatcatt cggatgcgtg g 51

<210> 30330  
<211> 329  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-052-Q1-K1-D6  
  
<400> 30330

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actgaatcat ctaatgctga ggtgaacaca tcaagtgtg tggctgctgg agagtctgag 120  
tcccatgaaa ttggatcgcc aaagagtcta aaagatgcta tcaaaccaaa acataaaaga 180  
aagaagaaga aaagtgcag gagttagttt agttgcaagc ctgtaatttt gtatgcccc 240  
gataaatcaa ggacagtcta caacacctca aactcctgat tgatgaagtt tcatccgggg 300  
tgccatacat ggggtttttt ggggttttca 329

<210> 30331  
<211> 475  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-052-Q1-K1-C11  
  
<400> 30331

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ccgcagggac cactcgctca cgcccagtg ctagcgagcg cgctgtctg ctgtgctgtg 120  
tcgtcgtcct tggtgctttg tgctttgttt cgttggtgat gaaaaggctg ctaggcgtgg 180  
ctgccctact acgcccgcgc ccgcccgcgc tctctctgct tgcggtgact gaggcgcccg 240

cgcgagccgg tgggtgaggc gttggtcgtt ggcttatcgc cagcaaactc gtgtcgtcgc 300  
 tcgtctacgt acgtgcccac tgcattttctt ccggttggtg ctttccattt ggtctcgcac 360  
 cgcatgcac acacgaggcg ccccaaaggg ggcaagcgt tccatgattc atacggatac 420  
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<210> 30332

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A9

<400> 30332

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 gcagaaaaga atgggtttcac ccgacgccac tctcttctt ctagtataaa gagtagagca 180  
 cttaaagctg aatggaagcg ctgaagaggc aacctatcgt ccacttgaat tgaattgtgc 240  
 actgctctga aacttcgctg gatgaactcg accggtcttg tcccatgttc ttgctgtatt 300  
 gaacaacccc ttgtgaagtt gcgattctgg ttcagtttgt cgtagggttca tgtgcaacca 360  
 ctagtgcctt gtgtcgtata ttgcatgggt cttgtcgaag gaacaatgcc tgcgaaagct 420  
 gatgttagga ctgcattaac tgaataacat caccagttg ccc 463

<210> 30333

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B1

<400> 30333

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 aggaagggga gaagagcgtt gtcaagtac acatgttgga cctcagatca gatgaaacgg 120  
 tcttttctag tctctcgtgt tcactacgaa tgtgcaatag tgcaacatgt cgcgaggtga 180  
 tgaattccac aaagacgagg tgacggagca gggcattcaa aagcccgcag 230

<210> 30334

<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B10

<400> 30334

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caagtactgc gggatctgct ggcgcacctg caactgcgtg ccgtccggga ccgcgggcaa 120  
caaggacgag tgcccatgct accgcgacat gaccaccgga cacggcaacc gcaccaggcc 180  
caagtgcccc tgatgatatt cattccttcg ctccctccgg ggagccagct gtcttgcattg 240  
cgtatatgta atgtatgtat aggctgtgca atgcatgcat acatgataca tgccgtgact 300  
ctggatcggc ggatgcctat gcatgctttt cactagctat tattactact actactactc 360  
ttcctgtctt cctactgtgt gcaccagagt gagagggacg acatgcatgg cgatgacatg 420  
tcgtgttatg tgcact 436

<210> 30335  
<211> 614  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B11

<400> 30335

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ccgccgtcgt cgatgacgcc ttcttgacaa agtatgacat caagctgaac aatgctattc 180  
tcgtgagga gaagcacttg cctatgtatg acgagttggc tagcaagagc aatgttgaat 240  
atattgccgg aggagccacc cagaactcta tcagggttgc ccaatggatg cttcaaactc 300  
ctggtgcaac aagttacatg ggatgcattg gaaaggacaa gtttggtgag gaaatgaaga 360  
aaaacgtca agctgcagga gttactgctc attactacga ggatgagact gctcctactg 420  
gcacatgtgc tgtatgtgtt gttggtggtg aaaggtcatt gattgcaaatt ctgtcagcgg 480  
caaactgtta caaatctgag catctaaaga gaccagagaa ctgggcacta gttgaaaagg 540  
caaaatacat ctacattgct ggatttttcc ttacagtgtc gcctgattct atccagctag 600



tcgctgagca tgct

614

<210> 30336

<211> 602

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B12

<400> 30336

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gagggcgtea agtacggcgc gggcatcggc cccggtgtct acgacatcca ctccccagg 120

atcccgtcgg ctgaggagat cgccgaccgc atcgacaaga tgctggcggg gctggacacc 180

aacatcctct ggggtgaacc cgactcgggc ctcaagacc gcaagtacac ggagggtcaag 240

cccgcctga ccaacatggc ctccgcgcgt aagctcatcc gcaccagct cgccagcgcc 300

aagtgagcac cttttttttg cttttttcgt ttccgaggag ggcgtcgtcg atgccaat 360

gtttccaata aacagggctg tgcccgcgt tctgtgttac tccgtctgtg gttagggttag 420

tagttttctt gatctcgccc ccacgggta cctgttttac tactctctgt ttggtggttt 480

ctgaggcaag ttgcccgtgt acttgatcg taaaaaccga gtgggacatc tgcacgttt 540

catctgccac cactcccccg aggtgtgctg tttcacggct taaagaaaga tgctgtatcg 600

gc 602

<210> 30337

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B2

<400> 30337

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gttcaacgct ccttaggtgt tctatgaagt gcttgaactg aagttcgttg tcgttctgtt 120

caccgcggtt cgtaattga tcacgtgatg cggacgacaa gagccgagtt gatcccaaaa 180

tgatgctggt gaacgaacct gaagcttgga tgatctggtc aagtaccagg atgagagatg 240

ctccccaagc ggacatcatc taacaacact gacttagtgt tatctcagac aagccccggt 300

gcatttgcca ccttcttctg ttttaaaaac ttttattact tacct 345

<210> 30338  
<211> 347  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-052-Q1-K1-B3  
  
<400> 30338

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cctaggcgctc gcctaggcga cgcctaggcg tccgggcggg ggtctaacgc ctaggcgcct 120  
tgcccgccta cctcgcctag gcgtccaggc ggtgggtccaa cgccttggac cgccttaccg 180  
ctttaaaaac catgataatg gtaaacgtaa gttttgtgct atgagcctat agcttctccc 240  
ctatcgtggg cagtcgtgctc aggatacttg gtttctgtga aacattcagg ctgtcattat 300  
gtctggtctg tagaatgtgc tagtgtgaat gttctgctat ttcaata 347

<210> 30339  
<211> 296  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-052-Q1-K1-B4  
  
<400> 30339

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gttgggcctc tgatcacacc ccaggaagcc tgcaaccgca tagcagaggt agtccaagag 120  
gccgtgagaa agatggagct cgtggctgaa gaaaagatgc gactttacaa gaaggctcgc 180  
ctcgcctggg aggctgcga ccgagagctg gaggagaagg ttagggaagc ccaggagctg 240  
aaggcagagc gtcagcgcaa gaagcagcaa gtggaggagc tggagagcat cgtgcg 296

<210> 30340  
<211> 299  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-052-Q1-K1-B5  
  
<400> 30340

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 agggttcctt agggttttgt ggaggggcga tggcggcggc tgatgtggag taccgttgct 120  
 tcgtcggcgg gcttgccctgg gccaccagca acgagtcgct ggagaatgcc ttcgcctcct 180  
 acggcgagat cctcgactcc aaggtcatca ccgaccggga gacggggagg tgttgccgct 240  
 tcggcttcgt taccttctcc tccgagaact ccatgctcga cgctttcgag aacatgaac 299

<210> 30341

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-052-Q1-K1-B6

<400> 30341

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 gccttcgtga aagctaaaga cggaggcttg gaagtcattc agacctaagt cttttgtaat 120  
 ggacatgagc ctacgcctgg aaattactat ttcgaggaga ggtacgattt agtcaggttc 180  
 ataaagacgg tccagaaggc cggcctgttt gtacatctct gcatcgggtcc tacatttgtg 240  
 gcgagtggaa cttcgggtat ggggtatttc tccatttcct gaaatcacct ncgttaaaaa 300  
 tggagcatta tcgtgtcttc 320

<210> 30342

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B7

<400> 30342

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 caggttccat cagtaccagg tgggtggggcg cgcgctgccg acgcccggcg acgagcacc 120  
 caagatctac cgcatgaagc tctgggccac caacgaagtc cgcgccaaga gcaagttctg 180  
 gtacttctg aggaagttga agaaggtaa gaagagcaac ggtcaggtcc tggccatcaa 240  
 cgagatcttc gagcgtaacc cgacgacgat caagaactat ggcattctggc tgcgctacca 300  
 gagcaaaacc ggctaccaca acatgtacaa agagggtccg gacacaaccc 350

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 <211> 336  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B8

<400> 30343

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 ccaagccctt ccttgatgtc tgcaagcaaa tattgcctgt cctcgataaa tttggagctg 180  
 ctatggcaat tgtaaagagt gatatcggcg gcaatatcac aagactggaa aacaagtata 240  
 cttcagaacc atcaaagtat gaacacttgt acagcatgat tcaagaagaa gttcaaaaca 300  
 agaccgcaaa aagttcctta agctgcacaa atgggc 336

<210> 30344  
 <211> 513  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-B9

<400> 30344

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 cctcgccccg cgctcctcgc ctctccagcc tcagccgtgc ttccacgtct ccctttccgc 180  
 tcgcctctcg ctcccggcgc cttctacact cgctgccctc ggcggcgggtg cgcgtgcgcg 240  
 tgcgcgcgca gctgcagacg cgcttcttgg cgagcgaagc cgcgcggggc ggtgtcggcg 300  
 ggcgcgggcc agcagcggac agcgaggagg aggcgcagga gtgggcgggtg gagtgggagg 360  
 acagcgagga cgacggctac gagcccgaga tcggcgacgg cggtgacggc ggccgggtcg 420  
 cgctgcgggg cgtcggttgg ggcgagcgtg ccctcgtggc ggccgaggag gttctcgccg 480  
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<210> 30345  
 <211> 392

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-C1  
  
 <400> 30345  
  
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 tgatcccaaa tgtccaggat tggagtcact tgtggagaag gtgaaggaga ttgttgagag 180  
 caatgaagtg aggagattgc ctaaaattcc aaaggggtaca cgcgactttg gtaaagagca 240  
 aatggcgata agggagcgag cattttcaat tataactagt gtattcaaga tgcattggtgc 300  
 tactgcgctt gatacacccg tatttgagct gagagaaacc cttatgggaa aatatggtga 360  
 agactcaaag ttgatatatg acttaactga tc 392

<210> 30346  
 <211> 503  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-C10  
  
 <400> 30346  
  
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 tattgacgga cgctgacgtc gcagaaccag ccctctctgc gagaagcaac agcaccacag 180  
 ctgcatggac ttggtatgcc gcactcagaa tgcgaacca tgtcttgagc atatccacat 240  
 tgctgatgct atgggcttgc ctctcatct gaagatagtc ctgggtcaaca tcatacgcg 300  
 cgtggcgcat tagatctgac gattttcaca ttgagctggt aatagcaatt actttccagc 360  
 agctatatgt aacgtataat gacattgatc tgtgcggtgt tatggaggat ggatggatgt 420  
 tgagcttgat acctcaaagg tggcacttga tcgtgctgcc agatgtctct aggtacatat 480  
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<210> 30347  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-052-Q1-K1-A7

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ggcggcgctg tgcgtggtgg cggcggcgct gctcgccgtg cggtcggagt cccacggcct 180  
ggaggacttc gcaagcagcg acgcgacgcc ggagatgcag accttcttca agcccagggc 240  
cgcgggcgctc ccggaggccc tggacgcgtc ctccatgccc gccgncacca tggccgcgaa 300  
gccggaggcc acgtcgatcc cgaccaccaa caccggcacc acg 343

<210> 30348  
<211> 290  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H10

<400> 30348

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tgtgttttct gaaacgcata agcgtgtcag tagcatgttt tcataaccgg attgtagtgc 120  
ttcattatct atagttttct gtacgtgtaa aatagaccag cgtaacagcg tagtttgctt 180  
cattctccga agtattgtat ggctgtacac ccaggcatct gggcatcatg aacccaactg 240  
attggctaaa tgaaataaat ctctccatc caacagcaaa ttacaaaact 290

<210> 30349  
<211> 511  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-051-Q1-K1-H11

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cgtgccgcac gacgcagtac ccgtcgggtg gcgagcagag cctggcgctc tacggcgggt 180

cgccgccgcc gcggagcccg cgggagctgg cgcgcgccgc gctgtcgggtg agcgcgggacc 240  
gcgcgcgcgc cgcgtcggcg tacgtgggcc gcctgtgcgg cgccagcaac ggcaaaggcg 300  
cgaagaagggt gtcgggatcg gcgtcggcgt cggcgtcggc aggtcccgtg cgcgactgcc 360  
tggacaatct ggccgacagc gtggggcacc ttcgcgacgc ggcgcatgag atgggcggcg 420  
ccgggatggg ccgcgcgggtg acgccggcgt tcaggtggca cctcagcaac gtgcagacct 480  
ggtgcagcgc cgngetcacc gacgaggaca c 511

<210> 30350  
<211> 210  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H12

<400> 30350

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaccaaac aaaaaaccaa 180  
caaatcacca ccaaacacaa aacccaaaaa 210

<210> 30351  
<211> 253  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H2

<400> 30351

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caaagcgcca ccggcagacc ttcaccaagg gtatggaccc caagttttctg aggaacctga 180  
tgtattcaag gaagggcaac aaaaagagtt gtgggtctga agaattaaaa agaaaacatg 240  
gttggtttttt tta 253

<210> 30352  
<211> 109

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H3

<400> 30352

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 agactttatt ttaaaatata tataccactc cctcttatat taaactttt 109

<210> 30353  
 <211> 231  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H5

<400> 30353

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 aagaaggatt taattaattt atatataaaa tccattaaaa ttcccttcct ttcttataat 120  
 atccttcttt attttctcc tctttctttt cttttttctt cttttttttt ttttccctct 180  
 aataaaactt aacattcccc tcttttttcc actcttttat atttcttaaa a 231

<210> 30354  
 <211> 89  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H6

<400> 30354

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<210> 30355  
 <211> 322  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H7

<400> 30355

ctacttctag atccctacca ttgccttctg tgatactgac tcttccattc cgtacctga 60



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 tgcccaggat ggttctgcaa ttgaggggct ctattcttcc tgccgacaag tggaaactca 180  
 tgggtcaatct tcttttctac agacccccag aaaactcaaa ggcccgggag gagaattttc 240  
 ccgtcccccc tgattttccc gcattcactg attaccaacg aactgatcag tggggtggtg 300  
 atcagtggac ctcttattgg gg 322

<210> 30356  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H8

<400> 30356  
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 ttagccggca gttcctcgtc tttggtgagt tgatagaaac aacatctaca actattccag 180  
 atacattatc tcctagattt ggcaactgcag actatggatt gactgagtgg gaatttcaac 240  
 cagcatacta ctatcagtta gcggcaactt acttgaaaga gaagaggtat gccatcgaat 300  
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<210> 30357  
 <211> 185  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H9

<400> 30357  
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 aaagatctcg gggccctgct gctgctgctg gtactcaatc tctcaaccct gaacgaaata 180  
 cccat 185

<210> 30358  
 <211> 381

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A1

<400> 30358

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gggcaggcgg tgggtggcgt ggcgtccgct gacgcgcgct tggcggggat cgcctcctcc 180
atccgcgtca tccccgactt tccaagcca gggatcatgt tccaggacat caccacgttg 240
ctggttgatt ccaaggcgtt ccgtgacacc atcgacctct ttgtcgagcg gtacaaggac 300
caagggatca ccgtgggtgc tgggtgtgaa gctagagggt tcatttttgg tccttctatc 360
gcttttagcca ttggcgcaaa a 381
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<210> 30359  
 <211> 587  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A10

<400> 30359

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gacgatgagg agcgtcagtg cgtgggtccag tgacgggtggg gattatccat tgccaatgct 120
ccggaacctt gtcattggtg ctgggcattc gatctatacg agctcaagat gcggggagac 180
cgagagttag aattcctggt tcttggagcc gtaccagaag caccgtggac aggcggccac 240
cttcctggct cacatcaagg agggggtggg gatcgcgggc agggatgagg gggcactcct 300
gttgttcagc ggcggggaga cgaggagaga tgctggcccc aggagttagg cacagagcta 360
ctgggctatt gccgagtcga aaggatggtt cggaaatgat gaggggtgaa ggagccgagc 420
actcaccgag gagcatgcac gagatagttt tgaaaacctc ctatttagtg tgtgccgttt 480
cagagagcta actggaagat acccacagaa cataactggt gttagctacg atttcaagga 540
ggaacgtttt gcacaactgc acagaaccgc actcggattc ccggaag 587
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<210> 30360  
 <211> 252

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-A11  
  
 <400> 30360  
  
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 ggtgagcttt atgaattatg gaacttcgga aaaagtccag cagaaaattt tgtcaatgaa 120  
 ccatgacaac aaaatccagg gaagatgtat tcttcagcgt agtagatagc ttgaggatgt 180  
 ttattaggag gcaccgtgta ttgcaagatg ttatgtttag cattatttca aagaaggatg 240  
 ctattgtggt tg 252

<210> 30361  
 <211> 421  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-A12  
  
 <400> 30361  
  
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 cagactcatt gccacgcgcc tgccgccgac attcaggtat tgcatgtgg acctcctccc 120  
 atgaacaaag ccatggccgc gcacctggac ggccttggct acacgaagga gatgcagttc 180  
 cagttctaag cgttacattc tctctaccag taccagaata aacggcggtg gaacaaagtc 240  
 acagtcacag agcgtcgtac ttactctacc tggatgaaag cagcagtaca gtacccacct 300  
 aatttgtatc ggtgtcggga cattgtaccg tgccgttctt ttgtatcggg ttgtcactca 360  
 ctactcact ccgcgagcca gcagcccagc acacgatcca tcgtgtcgtt ttggcaacgt 420  
 c 421

<210> 30362  
 <211> 329  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-052-Q1-K1-A2  
  
 <400> 30362  
  
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cgatatgtgct gtaaaggtga agctagaact agaacgccgc tacatcagtc agtgccatta 120  
 ggcttagtac attcttcatg ctacagctgt ttcgtcaata aggaaactac gtgtatgac 180  
 tgcggacggc aggcgaaaat agcacgtagt acaattccat tcctacatat ccggtctgtt 240  
 cttgctctgc atatttcttt ctctagaggg gatgttatgt aacgcaatgc aacacccta 300  
 cctggcgtgg gtgtgggtgt ttggagggg 329

<210> 30363  
 <211> 242  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A3

<400> 30363  
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 tatgggaaaa tagaaaaatt taaaaaggtc tggaagcctt aacgtcatat aagtttagct 120  
 agcacaacca tgatacgtaa tggaacatgc tatatggacc gcaaaataaa gtccagtgt 180  
 ctacattctt aaacactatg accgtaaaaa ccatggtgat cccaaactta atctcgttgc 240  
 ga 242

<210> 30364  
 <211> 324  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A4

<400> 30364  
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 cgtgctccac atccagctca tgctcgccaa catggtgcgc gagttccgct ggctgccgcc 180  
 cgccggtgag ggccccccgg accccaccga gaccttcgca ttcaccgtcg tcattgagaa 240  
 cccgctccgg gcagccttcg tcgagcgggc cagcactgag acggcgacaa ccgcgtagcg 300  
 agtgacgacc gaaaggtata aaaa 324

<210> 30365  
 <211> 337  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A5

<400> 30365

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gccacgtttg cgctctatgg tgacgggtgcg gctaaccagg gacagctctg ggaggctcgc 60
aacatttcgg ccctctggaa gctgcccgcg atattggttt gcgagaacaa ccattatggt 120
atgggaacag cggaatggag ggcagcgaag agtcctgctt actacaagcg tggcgactat 180
gtgcctggat tgaaggttga tggaatggat gttcttgctg tgaagcaagc gtgcaaattt 240
gcaaaagatc atgctgttgc aaatggccca attgtccttg agatggatac ctacaggtac 300
catggccact ctatgtcaga tccaggaagc acttacc 337
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<210> 30366  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-H1

<400> 30366

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gcgcgetcca cgggcccgtc ccggacctct ccccgctcgc caacctcaag gcgctcttcc 120
tcgcggggaa ccgcttctcg gggcccttcc cgccctcgct cgctccctg cgccgcctcc 180
gtcccatcga cctctccggt aacaggctct cgggcgcgct cccgcccggc atcgaggccg 240
ccttcccga cctcaccctc ctccgcctcg acgccaacca cttcagcggc accctcccgc 300
cctggaacca gtcgtcgtc aagtgtcaa cgtctctac aacaactttt tcggggccag 360
tgcccgtcac gcccgtcac tcgcatgtcg gcgccgccgc gttcgctggc aaccccgcgc 420
tctgcggc 428
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<210> 30367  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-A6

<400> 30367

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tgectgacca tgggtgcacat ggccttctgc tcgtccctcg cgtggcgct cgtacgcgtc 120  
ctacgagtcg tggacctccc gtectcgccc gacatgacgt cgcagctcta cctctctac 180  
gtggtgccc tgggcgccct ctactcgctc tcgctctggt tctccaactg cgggtacatc 240  
tacctatccg tatccttcat ccaaagtctc aacatgc 277

<210> 30368

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F3

<400> 30368

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ttccaacctc aagggcgcggt ctaaaccttc tgcttacaac tcatcataac aatgataagt 120  
tctcaaagac tatttcaaga cctattataa taccctaat ctgcacctta tgctgcccatt 180  
gattcgaccc atcataactaa cactcataat taaacttatt aattattgat gcacatttga 240  
ctggacatgt tactattttt tgagtaccat atggaggacc agaggtttga tatcttgaac 300  
gttcctgtga acatcaa 317

<210> 30369

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F4

<400> 30369

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ggcagggtact tactctttta cataaaaaact ctacaatata ataaatcatt ctttatatac 120  
tatttcatta cctcttatat tccccctttt atgtacatat ttcttcacat tttatgattt 180  
cttcatacta accattttta tta 203

<210> 30370  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-F5  
  
 <400> 30370  
  
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 gcgtgccgac tacctgaagt acaagagtga gggtagaatt gttcctgatg gtgtcaacgc 120  
 aaagctgctc ggtaaccatg gaagacttga gaagcgtgct cctgggaagg ctttcctcga 180  
 ggccgttgct taagtccaat ctacagttgg aatgcgaatc cagacgtttt ggttttagcct 240  
 atcttatttt gctttgtgca acatgaattt taagtgtatg ggggtattaca gtgccttgctg 300  
 tgaacctgct tatctcgtgc tgaacatcgg tatgcatgga agtacttata ttttgttctg 360  
 ctaaaaatta aagtgttctt gcgactaaat atatcttctc aatctgggct tgtctcttta 420  
 aaaaacaaaa aaagaaa 437

<210> 30371  
 <211> 134  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-F7  
  
 <400> 30371  
  
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 cggcggctga cgcttctgct tacaactgat cataactatg atcagtgtt aaagactatt 120  
 tcaaggcata ttat 134

<210> 30372  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-F8  
  
 <400> 30372  
  
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 cttttgctac caccacgga ggctgttggt tttttcactc aatctgtgat gtcttcttgc 120

atacatgtcc tactacatat tgaacattga taagctacaa cctaattggtt acaagtcacc 180  
tatactgCGT ttggatgctg gtattgaggc ccagattttg gaattggaat tggtaaagcc 240  
gaatttcagc gtttggatgc tcacggaatt cggaactgga aatccatccc aattcccctg 300  
gtattcaact acacctgcac cccctcccct tcaataccaa gccccccacc tcggtattgc 360  
tcagaattca attacacccg catccaaaca acaacattgg tattgcagat caattccatt 420  
tccctcagat ttgg 434

<210> 30373

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F9

<400> 30373

tcgggttttc tcgccgccgg cgcgcgtcgtt tcctcgtttc cggcgcacatcg atgcctcgcc 60  
agggaactttc ggatcaagag gaagctggcg aagaagatgc gccagaaccg acccatcccc 120  
tactggatcc gcatgcgcac cgacaacacc atcaggtaca acgcctagcg caagcactgg 180  
cgccggacca agctcagctt ctgagcgcctc agatcggtcg gctactgcat cagaattcta 240  
aggtctctac ctttgccttg gttctatcaa agtctcttga ggttatgaaa gctagcgata 300  
ctcctcagaa agcttttggt aagattttga ttacactaag aagattgatg cttctatgcc 360  
gtgctcaaga ttccatgctg cattgggata ct 392

<210> 30374

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G10

<400> 30374

cggcacgaag ccggagtctg ggctggcccc gcaggggggtc gagcaggcgc tcgtggccgg 60  
ggaaaagttc cggaaggagc ttgacgagat tgggttgccg ttggtttcgc caagaattgg 120  
tacttcgcgg ttacagggc ccggaacagt ctagagtgtc cccctgtgtg ctgggtatcc 180  
cctttgaagc tcctagttgc gaagttggc 209



<210> 30375  
 <211> 631  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-051-Q1-K1-G11  
  
 <400> 30375

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tcaaattctat cagcaagggtg ctgggttaaag tcagcttcat cgaagtcata atcatcttcg   60
tcgtagccat caaagtcata atcacaatca tgctgcatat agtaatcttc ttcttcttgg  120
atattgttga gttctgggtc tgatatttgc agagaactac ttgagctgga accagcttga  180
tcgctggaag aaccctgtca aacagtcggc tagccagtaa ttataccaat caaagcatta  240
aaagaatgca cgaaaaggac aggcaaagtc cttctgtttc gccatccact atgttttagtc  300
agtcgtgtgg acgatggact gattgccagt tagtagtacc ataaaaatat gaatagaaca  360
aatgcatctt tatcataaag gccaaaacaa ctgccgcaat gcttatcgca atcctttgca  420
ggataaaata aaatcacagg gaagccatct cctgacagtg ttcaccgatc cgctagatta  480
atcgaagaaa cgaaatcagg tcaattatga ccggcattgc atcaatcaac ccaagaaaga  540
ccccgatcg taccatattc gctaccaact catcncagc gaacacctcg gcagtcggca  600
ctcgaattga cgcgtcaaaa tcccaaacc t                                     631
  
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<210> 30376  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-G12  
  
 <400> 30376

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cgcggtggcg gccatggcgg cggcgcagca ggcgtcgaac gtgcggggcg cgtaccacct  180
gtacaacccg gcgcagaacg ggtgggacct gaaccgcgtg agcgcgtact gcgccacgtg  240
ggacgccgac aagccgctgt cgtggcggca gaagcacggc tggacggcct tctgcgggcc  300
  
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cgccgggcag aagggccagg ccgcctgcgg caagtgcata aggggtgaaga accgtgcgac 360  
gggcgcgtcc atcgtggcga ggatc 385

<210> 30377  
<211> 438  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-051-Q1-K1-G2  
  
<400> 30377

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tgaagccaga gaatctactt ctggactcac atggaaccct taaagtttca gactttggcc 180  
taagtgcatt tgcaccacaa acaaaagagg atgggcttct gcatactgcc tgtggaactc 240  
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tatggctctg tggcataatc ttgtttgttc ttatggccgg atacttacct tttgatgatg 360  
tcaatctgat gagactgtac aaactgatct gccatgcaac tttttcttgc ccaccatggt 420  
ttttttctgg agcaagga 438

<210> 30378  
<211> 439  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-051-Q1-K1-G3  
  
<400> 30378

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ggcaaataata ctcccagac aaatggaact cattctggga aaaagccact gggtgttatt 120  
ggaataatga ctagctttgg gagggaaaac taccgtgatg ctgtcaggaa atcatggctt 180  
ccgacaggtt caatgttgaa gaaactagaa gaagaaaaag gcattgtagt acgttttgtt 240  
gttgggaagaa gtgcaaactg aggagatact tttgataggg agatcgatga cgaaaatagg 300  
agcaccaagg atttcttgat attggatgat catatagagt cagatgaaga gctttctaag 360  
aagacaaaaa gtttctttgc taatgcaaca aatacattcg atgctgcatt ttatgctaag 420

gtcaatgatg atttataca

439

<210> 30379

<211> 150

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G4

<400> 30379

gaccgcacgc gtccgagcac tectattcta acgcctattc tgtctacgtt tactaaactt 60

ctatctacca taccagtagg tctactattc tatgcagata aacatacaca tcaccatggt 120

gccttcctta taaatcccaa tectcaacat 150

<210> 30380

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G6

<400> 30380

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tgcaattata ctgcgagac aaatttaact cattctggga aaaagccact ggttggttatt 120

gcaataatga ctacctttgg gatgaaaaac taccctgata ctgtcaggaa atcatcgctt 180

cccacatggt caatgttcaa aaaactataa gaagaaaaat gcattctagt acatttccta 240

ctttgaagaa cctcaaatcc ttgacatact attgataggg agatcgatta caaaaatatg 300

agcaccaagg attacttgat ttgggatgat catctagagc caaatcaata gctttctaaa 360

aaacaaaaaa ttgttttact aattcatcaa atacattcta ttctgcactc cattgctatg 420

tcaatgatca aatatacata 440

<210> 30381

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G7

<400> 30381

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 ccgatcatcg acatggggct gctcgccggg gaggagaggc cggcgggcgat ggagctgctg 180  
 caagatgcgt gcgagaactg gggcttcttc gagattctga accacggcat ctcgacggag 240  
 ctgatggacg aggtagagaa gctgaccaag gagcactaca agcgggtgcg cgagcagagg 300  
 ttctctgagt tcgccagcaa gacgctcggg gacggccgcg acattgcgca gggcgtgaag 360  
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<210> 30382

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G8

<400> 30382

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 ccaggccttt taaccggcca actcgacttc gaaggccaac aaggaaccog gccgcgtaag 120  
 aagttttttg tcattggcct tttcaccact tttgctt 157

<210> 30383

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-G9

<400> 30383

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 gagccgcaga gggtagctgg cgaggctgct cagatacgtc tgaggcctgt gcagctgcgc 120  
 ccgatcgata tcaagatcaa ccgccagggtg accttctgca aacgcctgaa cgggctgctg 180  
 aataaggccc accagatctc cctgctctgc gacgcagagg tcgcgctcat cgtcttcttc 240  
 actaagggga agctatacga gtactctagc cattccaaca tggaaggcat tcttgagcgt 300  
 taccagcgtt actcatttga agaaaggga actcttaacc ca 342

<210> 30384

<211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F2

<400> 30384

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 tcctgcgcag agggctgcat tcaatgatgt gtatattgca tatgaattga tggataactga 180  
 tctgcatcaa attattcggt caaatcaagc tttgtcagag gagcactgtc agtattttct 240  
 ttatcaaatt cttcgtgggt tgaagtatat acattcagca aatgttcttc accgtgactt 300  
 gaagcctagc aatcttcttt tgaatgcaaa ctgtgacctc aagatatgtg attttgggct 360  
 tgctcgacc acctcagaaa ctgattttat gactgaatat gttgtcacia gatggatatag 420  
 agcaccagag cttt 434

<210> 30385  
 <211> 421  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D8

<400> 30385

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 taatgtgacc aggacctgac gccctgtgct gtgctgtgct gtgcttcccg cgtaataacg 180  
 gtgtactagt taccttcttt gcagaaaatg ctttctagga atgagagcgg aaatatttct 240  
 accatttatt taaggctcctg tttggaaaca acccaacagt ttttaagaca ccagttttta 300  
 tcttttagct ttgagagacc aacttcttgt ttttatgaaa gtgggaatca aatttctata 360  
 aactgagcca taaactggtg gtttcttttag aaccacctca ttttttataa accggtttgt 420  
 t 421

<210> 30386  
 <211> 446  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D9

<400> 30386

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ccaaaggcca catgacctat acatcagcat cctttgcta caggctgtcg cacatatcac 120

cgaaccctga ctcatctgac catgatcttc tcaactgtcg aacggaggta gacaaggctg 180

ctcgcgctc accatacata tactctggtg gccgaaggct tgtgtgcctc ggtgaacact 240

tagcctacct gcacatcaag gcaatctgga cacacctact gaggaacttt gagctcgagc 300

tggatatcc atttcaagag aacgactgtc acgacatggt tgatggcatc aaggccgacg 360

tgatggttca ctacaagagg cggaagcttg acgtggacaa ctaagattgt ggccacaatc 420

tctacatgct tgctttcttg cgattc 446

<210> 30387

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-E1

<400> 30387

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gctcgcagtc gtctctttga tgtaatactg cattcttctg ttggagacgt gtcaccagaa 120

cttgtggagc aatttangac cagacaaagg aactttgaca ccgaatctcg cgcagggtgca 180

gcagctaaag tgaagcaaaa tcaacatatg actgccatac ctggtctgag gatttcacgc 240

agagttaaag ttacaaaacc attactatta gaagctatgt atgcaaattg attcataggc 300

gcaaagatga ttcgagcaaa gttatttcat aaatttctgt gggcttatgt caattctttg 360

ccaaattggt gcaatgcatt tggtt 385

<210> 30388

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E10

<400> 30388

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ggctccgcca cctccagcac gagtggcaaa tggctctgagg ccaatgattc caccgccacc 120

taacttcact cccggagcac ccccaccgag cctccaatg caaggctttc ctgggcaaca 180

gcagtagttg actgcttagc aggcaatgtt ccagtaattg gcagtcagta aaagtttcaa 240

gcttgtgttg actattgttt ttcggcttaa aactttgtat gttgtctggg actataactca 300

aacggcagct tgttggattt ttttgtatcc acatttatcc aagtgtttgt tt 352

<210> 30389

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E11

<400> 30389

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tgcattgact acgattcata tcaactctac agatctgtct atatcaacat tctgaccttt 120

caaatgaagg aacaatcatc atattggatt aatacattaa cttaggctct gaagactcta 180

acgaaatcaa cgaatagaaa tacacttgga aatcatatct cccggt 226

<210> 30390

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E12

<400> 30390

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ccgtgctgca cgctgatcca ggggctggcg gacctggagg cggcgggtgtg cctctgcacc 120

gtcctcaggg ccaacgtcct gggcatcaac ctcaacctgc ccatcaacct cagcctcctc 180

gtcaactact ggggcaggcg cgccccctcg ggcttccagt gcttctgact atcacagcc 240

catcgatcga tcgatctgga ggctaaataa tttctccaag ctgctagtat acgtacgtac 300

gttgatatat atgatgtagt attatatata tgtccatgca tctcgtcgtc tatcgcatgt 360

tggtgtgtgtt gttgtgtgtt ttcatgatc ctgtctctgt tataaatatc attattatt 419

<210> 30391

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E3

<400> 30391

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acatggctag cctgctagcg tgcggcacc acacaacaca acacactgct cgccagaagc 120

gccccaggag gccaggggag gacacgacgc cgccatcagc catcatcatc atctcagact 180

cagagcatgc catggcacgc aactgactga ctgactcgaa acacacacag cgacgccgct 240

atactttatt aagctttata attagctagc tttctccggc cggcctgcag ggtggagcac 300

ctagctcact tgccgcagtt gcaggg 326

<210> 30392

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E4

<400> 30392

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gcggacgttg agtaccgttg cttcgttggc ggccctcgct gggccaccga cgaccactcc 120

ctcaacaacg ccttcagcac ctacggcgag gtcctcgagt cgaagatcat cctggatcgg 180

gagacgcaga ggtcccgcgg cttcggcttc gtcaccttct ccacggagga cgcgatgcgc 240

agcgccatcg agggcatgaa cggcaaggag ctcgacggcc gcaacatcac cgttaacgag 300

gccagtcgcc gc 312

<210> 30393

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations



<223> Clone ID: LIB3067-051-Q1-K1-E5

<400> 30393

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ttagatcgac gctgctgcta tcttgggtca catgctacat caatntgggc aagnccgacc 120  
tgagtattgt ttcatttgaa gtnaaaaaat cggaacgccca ggtgggtctgt attttgggtct 180  
taggttttctg gtattgtacc cgtcaacatt gtaatctctt cttgaacttg cagntttctgc 240  
tgtccctgaa gccgagtttt attatacaca taatagaccc gggatcggtg accgtttttta 300  
aaataaaaaa taatgggtatt cttaataagg tttatataag tgcaatagat aatatcttac 360  
aaaagttttt tttattaaat attaaaaaag gcgcggcccc cttttttttt tcaatatttt 420  
taattttttt tatttttttc caaaaaaatg gtcgtttttat 460

<210> 30394

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E6

<400> 30394

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ggccatggtc acctggatcg aggccctggga tgagctgaac ccgtcgaccc ctgccgccgc 120  
aaatggcaag gccaaagtaga tgtgccatca cttcggcact ggagtgaata agaaagtatg 180  
attgggtcct gcctaggccc catagatata gctctttttt gagaaggaag agagattaat 240  
tcagcagcag cttttataaa ttctttgttg tcatgaagca ggtggttctt ttgtagttga 300  
tgaaagggat ttgtcgtcgc tctcgtttac ataattcaga caataatttt atattgtgta 360  
attctgagaa tcaaagcact gtttgtgtta tagcatatct aagaatgagc atttgctgtt 420  
gttt 424

<210> 30395

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-E7

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cacgccgggg cacatggcta ggcctctccc ntactgcacc cacacaacac aacacactgc 120

tgcgcagaag cgcccatga ggccagtga ggacactacg ccgccatcag ccatcatcat 180

tatctcatat tcatagcatg ccatggcacg caacttactg actgactcga aacacacaca 240

ttgactccgc tatactttat taagctttat aattagctaa at 282

<210> 30396

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E8

<400> 30396

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gccttttgat catgttctag cttagcttgt tgcaagtgtg atttgaagcc tagtgcgctg 120

gggtttcttt tatggccatt tctctctcat tcctctacat tcatgcgtgg gtcattggata 180

ggcatgagaa aagattgtac gtacgtatct tgtgttctg tcccaatga atggatggaa 240

ccaaacgtgt gtccctttcc aaaatacaat caaaaaaatt atctttaccg ttacttgaaa 300

actaacaat tttttttga attcaaactg tgaactcaag aaattttgtt tttttggctt 360

ggtggggccc cctttataaa attctttttt tacctactat ttttttccca agatagtttt 420

tt 422

<210> 30397

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-E9

<400> 30397

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aatactctgc tcgatgctgc ttgcacgaga ctgcttgttg accagatcat tattgcaaag 120

ccggcacgag gtccaagaag agatgcccac tctggtggcg ggatggacga ggattagttc 180

gattatagtt gttatctttg tatcacgtat gtgaagcttc agagcagata tcatacttta 240  
tcttggctct tggttctagt aaaagtttgg ttgcttggag ttactacat gaacgtctgc 300  
accgttgccg atatatgaca taggcaatcc gtatgtacc tgctgggtga ttgcagttcg 360  
gctgtattac atgattcatt acaggggccg ctccttcagt tcatcacacc 410

<210> 30398

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F1

<400> 30398

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ggaggccgta gcgttcaaag aatacctgca ggagtacgag aacaccatat gcggacgcca 120  
ccccatcagc gtcttccttc acatgttgaa acattgctcg acaaaaatta agataggctt 180  
tgtccgctac gagcagtcca gccagtgcaa gaacatgagg gatagcagcg tgagctatgc 240  
atccgcagca gcgaaggttg ctggtgcatc cggggaagaa gataaacaag actgagcgag 300  
ctacagctct ggttgatata ctatatataa accgccaaac cttggtgctg aatgtgtgac 360  
tggtttccca taagaaaaag aacatgtgat ttggtaaaac attttcttct tcagtaaaaa 420  
taataaata 429

<210> 30399

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F10

<400> 30399

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaat aaaaaaaat 120  
aaaaaaaaa cgtacaaacc tttaaatacac aaataaaaac cacataaaaa tataacccaa 180  
aaaattaaaa aaattatcta cacatt 206

<210> 30400  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-F11  
  
 <400> 30400  
  
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 tgcgccagaa ccgccccatc cgctactgga tccgcatacg cacggacaac accatcaggt 180  
 acaacgccaa gtcaggcac tggcgccgca ccaagctcgg cttctgagcg cgcggatcgg 240  
 ccggctcctg cgtcagaatt ctacgggtctc tacctttact ttggttttat cgatgtctct 300  
 tgcgtttctg taagctagca aacaattcca gaaaagcttt gttaagattt tgatgacgct 360  
 aaaaagattg atgtactat gctgtactca agattccatg ctgcattgcg atgcttaatt 420  
 aaaaaacctt tgttacctt 439

<210> 30401  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-F12  
  
 <400> 30401  
  
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 tgttgactag cgaccagga ggtcaaaca gaggaacga gaacgaacgc caccaccgcg 120  
 ctccggtcgc tttgcttggc tccggccact gcaccgccat tgttgatctg ttctccttct 180  
 ccttgaggga gaaagaaaag gggagaggaa tgatggggcg cacgagcgtg ccggcggccg 240  
 tggcggccct gctggtgctg gcggcgtgcg cggctctgcc ggcgaggacg gcggcgaaca 300  
 agatcagcat caactggaag cccaacgtga actacaccga ctggctgaag cagcacagcc 360  
 ccttctacaa ggacgactgg ctggtgttct actacacggc tgggcaggct gacgtggtgc 420  
 atgtggacga ggtgggctac aacaagt 448

<210> 30402  
 <211> 321

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-D7  
  
 <400> 30402  
  
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 tgggcttcga cgcgcgtgta ctccggtggg tttatttttag aaatcagcag tgaagcaaaa 120  
 taattgtctt cggatatgtt aaactggctg agccattcaa aatccacgaa gcgcgagtga 180  
 ggtgcatctg aatgtgggtg tggttggcga atggggacga tgaaaacgct tacggccgtg 240  
 ctgtagcaag ttttggcata tattccttgt ttctaccgag agaaaaatta aataattatt 300  
 aacacataga caattataat g 321

<210> 30403  
 <211> 234  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-C11  
  
 <400> 30403  
  
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 gtcactgtca ccatggttta ccaatacctg aacgacgtca tcggctacta cgcgaaactt 120  
 accctccagc aattctagga tctcaacgag caaccaggtg ttatccaagt tgtgccaatc 180  
 caaacttacc agctacatgg cctcaaate tgcactcacc atggcacgac acac 234

<210> 30404  
 <211> 587  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-C12  
  
 <400> 30404  
  
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 cccgcagcag gctggcaccg tccgtaagaa cggcttcacg gtcacaaaga accgtccctg 180  
 caaggttggtg gaggtttcta cctccaagac tggtgaagcat ggccacgcca aatgccactt 240

tgtcgccata gacatattca atgggaaaaa gcttgaagat attgttcctt catcacacaa 300  
 ctgtgacatt ccgcatgtga accgtactga gtatcagctg attgatattt ctgaggatgg 360  
 atttgtgagc cttcttactt cagatggcaa cactaaggat gatcttagac tcccaactga 420  
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 tgtccagtct gcgatggggg aggagcagat ctgcgcgttg aaggatgttg gcccgaagta 540  
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<210> 30405

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-C2

<400> 30405

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 agttgcggat gtcactgggt ctaccagtgg cagccactgt gaactgtgct gataaactg 120  
 gagccaagaa cctttacatc atttctgtga agggaatcaa ggggcgcctt aacaggcttc 180  
 cttctgcctg tgttgggtgac atgggttatgg caactgtgaa gaagggaaag cctgacctta 240  
 ggaagaaggt gatgccagct gtcattgtga ggcagcgcaa gccatggcgc cgaaaggatg 300  
 gtgtctacat gtactttgaa gacaatgctg gagtgattgt gaacccaaag ggagagatga 360  
 aaggctctgc catcactgga cccatcggaagg agtagtgtgc tgatctgtgg cctangattg 420  
 ccagcgcggc aaatgcgatt 440

<210> 30406

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C4

<400> 30406

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 aggcgtgatt ctagggtctg aatgaattta caaacattgt actacgtctt ttgcagcact 120

caactgagac ataattgccca tacttttgact cttatgtgac tttcgtcgag aatggactgc 180  
 tggattatct ttttctgtgt tgacgtaacg aggtcgataa gaaactgttt tgaaacctga 240  
 gtggcaaact caagtgttgc atagacaagg acataaagta atgccacccg aactatgcac 300  
 cttgcgtcct tgccccggtt ctaacaattg atgccccccc ttgcattttt gtttgactgc 360  
 ctatttttcc tgccccccgt ttggttgggg caatgaggcg tagtggtcga taataaaacc 420  
 ca 422

<210> 30407  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C5

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 gaaccactca cactgccggt tggtttccct tccgttgtgg ttggtgcgta cttagtggcg 120  
 gccggccatg gcgcggagga ggggcttctt ggcggtggtg ccgtcggcgt ggctgccggc 180  
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 catcttcagc tttggcgact cttttttcga cacgggcaac ttcgtcatta tcaactcggg 300  
 caagctgccc aacatgcca agttcccg 328

<210> 30408  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C6

<400> 30408  
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 cgcacgccga gcaggccgtc gccgctgtag cagcaggagg agagggcggc actgcaagcc 180  
 cgggcaccgg cctcgaaggg ccggtgctta ggcgggggct ggacggcggg ggggaagggg 240  
 aggacgggga gctggggggc gggcaggagg cggacgcacg gctaccggag cggactggcg 300

aggcggactg tggctactac cttegcacgg gcgctgcgg ctteggggag cgttgccgct 360  
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 cacaagactt ttcaaaacga 440

<210> 30409  
 <211> 316  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-051-Q1-K1-C7  
 <400> 30409

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 ctcgaccctt ttagtctccg tccgacaccg cttggatcag agatggaatc accacccttc 180  
 acagctgaag caattgcttt taccgagaaa aagatggaca tgactttgga ggatataatc 240  
 aagatgtcaa agaaaaaaaa tcttggaagc aagaaccccc ctaggcaggc gatcaaaaag 300  
 cgtccattcc agaattg 316

<210> 30410  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-051-Q1-K1-C8  
 <400> 30410

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 gtatacgcac atagacacgg cacggccatg acaactatat ataatatggg cacaagagct 180  
 ttattttattt aatttacaca cgacgatgat gagcgaattg aaataaagga taatggagga 240  
 tggagcaggt acgtagctag cagtagctcc cctgctatta ttcgaattaa atctgacgca 300  
 agtaaacacc gatagcatcg acgagcctgg ttcccccccg cgcatagaat cccacgatgc 360  
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 aggttctgct gctggtga 438



<210> 30411  
 <211> 436  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-C9  
  
 <400> 30411  
  
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 agcttttctaa cgccactgcc agcgatccga cggtcgcact tcaagaacga atcggacaca 180  
 gcactctggc tctatcaacc gtctgcgacc aaagctcacg gacgccttca cgattctatc 240  
 tccgatcatg cggcaattcc cttccggaca tactgggggg gtgttggtcg caccgcgcaa 300  
 gctaaagctc gccactgcaa tgggcatggc ccgcggccgg ttaaagagc cgggtgcata 360  
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 ctctataatt cacaca 436

<210> 30412  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-D1  
  
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 ggaggaacag tcattcttga tgattgcaat ttccatgagt cagtacatct ggacagtttt 180  
 gatattgaca gaactttgac ttttaataccg cccgatggag aatttcctgt aatgaactac 240  
 cgtatgaccc aagaatttaa gccaccattc cgtgtaaccg cactaattga agaagctgga 300  
 ccagcgaggg ctgaagttct actgaaaata agagctgact tctccgcgag tgccactgct 360  
 aacacaatcg tagtacaat gccagtgcct gcatacaca tgagagcgag ttt 413

<210> 30413  
 <211> 378  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D11

<400> 30413

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gccacgtggt cgccgggcac tgccgcatcg gcaagcaccg gaagcatccc ggatgtcgcg 180

gtaacgcggg tggcatgcac caccaccgta tcctcttcga caagtaccat cccggctact 240

tcggtaaggt cggcatgcgc tactttcaca agtcctgaa caagttctac tgtcccgcg 300

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<210> 30414

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-D2

<400> 30414

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ggagggggctt cgcgtcgcag gccgccaagc ccaccgggaa ggagatcaag gttccaaagg 120

ctctgttttg cggcacaggc aactatgcca gtgcactgtt cctcacagca gctaaatcta 180

atgcattgga caaagttgaa tctgagatta aagctattgt agaggcttcc aagaagagcc 240

cgttgttttc tcaattcata aaggacttgt cagttccaaa agcgaccagn gtgaaggcta 300

tagccgaaat atttgctgac gctgggtttt cagatgttac aaagaatttc ttggctgtcc 360

tggcggacaa tggcaggctg aaatatattg aacgcattgc gg 402

<210> 30415

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D3

<400> 30415

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 tcgtgccccg ccgattcgcg tcgccctttg ttggaaggaa cgatggagca gaccttcac 120  
 atgatcaagc ccgacggcgt ccagcggggc ctgatcgggg acatcatcag tcgcttcgag 180  
 aagaaagggc tctacctcaa ggggatgaag ttcatagaac tggagaggtc cttcgcgcag 240  
 cagcactacg ctgacctttc cgacaagcct ttcttccccg ggttgggtga gtacatcatt 300  
 tccggccccg tgggtggcgat ggtgtgggag gggaaggacg tcgtgttgac tggccgcagg 360  
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<210> 30416  
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 tacattcgat tcgctgcagc ttgtattgta tgtagccttt ttgacgtgta gcacgcttgg 180  
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<210> 30417  
 <211> 416  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-051-Q1-K1-D5  
 <400> 30417

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 ttcatattac agaaagcact gccgacggat gatgtgaaca gggcacaagc agataatatt 180  
 taggacactt ttagaaggct tcaatcaaac catcttactt agaaaggaga agctgaggtg 240  
 ttgtccaagg atgggtatcg atctttcatg gggttcaacc ggccgctgct ggacccttca 300

tctaatatgg acagtgaaag tcatctagtg caacggagga ggcaataagg aaccgaagaa 360  
gacatcaagg tttctcagaa ctggttcaaa tgacaactcg ttagccatgc ttgatt 416

<210> 30418  
<211> 205  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-D6

<400> 30418

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cccgacctgc ttttcaatct gcggaacctc ttctacctgg gcgcctacca agcagtcac 180  
aacaacagcg acgttccggg ctttt 205

<210> 30419  
<211> 270  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B9

<400> 30419

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gccgcgcgac gtggccggtg tgctttgggt cggggctccg ggccgatccg cgtccgcgtg 180  
tggccatgat ccgctcaggg aacgcttggc ctatcgacgg taggcgatcg gagcgacgg 240  
gcgccggcgc gcgtcgttct ccgttcatgc 270

<210> 30420  
<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A2

<400> 30420

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ggcgggggtg agcggatcga gatggcgccc tcccatgttg agtaccgctg cttegtcggc 120  
 ggcctcgcct gggccacgga cgaccactcc cttcacaacg ccttcagcac ctacagcgag 180  
 gtcctcgagt ccaagattat cctcgatcgg gagacgcaaa ggtcccgcgg ctteggcttc 240  
 gtcaccttct ccacggagga agcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300  
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<210> 30421

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A3

<400> 30421

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 acaacgagtg gggctacagc aaccgcgtcg tcgacctgat ccgccacatg ttcaagaccc 180  
 agtagagggt tttccccctg cttctcatgg atggttgctg cttgtgtatg ccgagaataa 240  
 atgtggatgt cgccagggtc atgctgagtc tggacatgtt ttgcactttt gtttccattt 300  
 ctgccatcat ctgtggcaga tccgctcgct aatatgggac ctgagattag ctttt 355

<210> 30422

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A4

<400> 30422

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 acatgagggg aacgatgtga ccaagtactt tgtgagcagt ggatttgctt tcgtccatgc 180  
 aaactccatt gctgatattg tggctgttga ggctgtccct gtggatcaga tcgaccacgc 240  
 ttttgttcag aagggctctg ctgaattcac tgccaagctt ggttcggcct ctactgacct 300  
 ggagaaggct gaggctcaga tcggtgtcga tgttcacagt gcgctcaatg ctgcattgac 360

cggttaattg gtgtcatctt aaattgtctg tcttttagat tgagttaaac tttgcaaac 420  
ctaaataaat tatagtccat 440

<210> 30423  
<211> 360  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-051-Q1-K1-A5  
  
<400> 30423

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tggagggttcg ccttgggttg tccaaggac ctatctgtcc tagcttcaat tgaggcagta 180  
atgtaattct gctgcaagtt cacctctcag tccagtactt cagtcaatag accatattaa 240  
gatggtgaaa tatgaaaact ggtagcttgc atctgttcaa tgttatgttt taatcaacgc 300  
tgaatttaat atttgtcaag tttgaactta aaaaatttaa aaaatatttt ttttataaat 360

<210> 30424  
<211> 431  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-051-Q1-K1-A6  
  
<400> 30424

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ctgtcgcta tgggtgctgt gtccaggctg ccacctctgag cggtgagggc aatgagaagg 180  
tgcaggacct gcttctgctg gacgtcacc ctctgtccct gggctctggag actgctggag 240  
gagttatgac agtgcgtgat ccgaggaaca ccaccatccc caccaagaag gagcaggtat 300  
tctccaccta ctcgacaac cagcccgggtg tctgatcca ggtctacgag ggtgagagga 360  
cccgacacg cgacaacaac ctgctgggca agttcgagct ctccggcatc cccctgcac 420  
cccggtgtgt g 431

<210> 30425  
 <211> 389  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-A8  
  
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 tggagatctg gtcggcggtc ggcggcgggt tcccagacac gtcacgcgtc atggggccact 180  
 tcttcggcgc ggcggcgggc aacgtgggag gggcgacgt gatgagcatc caggacgcgg 240  
 tgggcaacac gcgggcggac ggcacgggag cgctgctgcg cgagggcgcc gccgcgtgc 300  
 tcaactccat gacccgcgcc gggttccctt acaccacgga gcaggtccgc gacgcgttcg 360  
 cggagggcgc ggcgccggg tccgacggc 389

<210> 30426  
 <211> 493  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-A9  
  
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 cggcctcgcc tgggccacgg acgaccactc cctccacaac gccttcagca cctacggcga 180  
 ggtcctcgag tccaagatta tctcgcgac ggagacgcag aggtcccgcg gcttcggcctt 240  
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 gctggacggc cgcaacatca ccgtcaacga ggcccagtcg cgcgggcgcc gtggaggcgg 360  
 cggcggcggc tacgggtggtg gccgtggagg cggcggttac ggcggtggcg ggcgcgtga 420  
 tggcggtgc ggctacggcg gtggccgcgg cggctacggt ggccgcggtg gctaccgtgg 480  
 tgggtggtggc ggc 493

<210> 30427  
 <211> 425

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 30427  
  
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 tcatatggcg caagggccag gcaagacctt cctcagatag tgaagctcgc ggagagtggc 180  
 gccttcaatc tccagaacac catatcaagg aaatgcaaat tcgaggaggc gaatggcgcc 240  
 tatgaggatc tcaatcaggg caagatcgta agacgagctg tggttgagat catgtagtga 300  
 tgacggacaa ggtaatcaat cctgtggttc caagtctggg tcacacaaca aataaagttt 360  
 gcgtgctctt tcacagcatn gtcaaaatct gtagatgacc aaactgcatt gtgtgtgtgt 420  
 gtgac 425

<210> 30428  
 <211> 327  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-B10  
  
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 caccaacatt tgattgaggc ctgaatatca atatatcggc gtgacatggc gttgatgttc 180  
 aggagccaca catgctcatt gccaatggag ttcactcctg tctttcgaga accaaaatgc 240  
 cttgggtgtt aagtgacgtg ttgcatgatt tttttcctcc gccccgttca gttattatat 300  
 atgctactat ggcgctaccc tttttgg 327

<210> 30429  
 <211> 516  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-051-Q1-K1-B12



<400> 30429

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gaagaagaga acatccctcg tgccatcttc aacaagcatg ccagcatcgc cgagtgaagt 180

tcttgccgcg gatttctaac tgcccttcgt tgaagagcaa gcttgccctg tataataatt 240

tcatggtaca ttctttacat gcattgggtg gaaacgattc tttcacattg ctcatcaatg 300

gtgttgtaac ctgcaacatt ctttatttgg tttcataggg cattcagtca gtttacgggt 360

ggtagtttgt cggaacatgt acccaatttt tctgatgaaa caaatgtttg agcttcaaaa 420

aaaaaaaaa taaaaaaaaa aaaaaaatta aaataaataa aaaaataatt aaaaaaaaaa 480

taaaaaaaaa taaaaaaaaa aaaaaaaaag gggggg 516

<210> 30430

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B3

<400> 30430

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acaaactgga attggcacgt ccattgccat agctgggtgtt gctatgtact cttacattaa 120

ggctaagatt gaagaagaga aaaagaaaaa gagcgcata ga ctgctgtgaa taatattatc 180

gggaccttac tgggacacaa catcgtagac aattacgacc tactttctata ccttgtttag 240

atctcatctt gagtcattcg gaccattgtt tagatcccag actggtgatt aaaagtctgc 300

<210> 30431

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B4

<400> 30431

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gcaccccgac atcggcattc cgtccaaggc catgtccatc atgaactcct tcataacga 120

catcttcgag aagctcgcgg ccgagtcgcg caagctggcg cgctacaaca agaagcccac 180  
catcacctcc cgcgagatcc agacctcggg ggcctcgtc cccccggcg agctcgccaa 240  
gcacgccgtc tccgagggca ctaaggccgt tacgaagttc acctcgtctt aggatccttg 300  
taatggatcat gtgggcgtcg gcggtaggcg tggctcagtt tatgtgatac tgctagcgat 360  
ggatgatgat gatctgcgtg taattgaatt aaagaattgt gctgatcttt ctacaacact 420  
gttccacatc 430

<210> 30432  
<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ggatttcttg actcttgaaa tgtgttatat attactgaat ataaagggtgt aagagggacg 180  
cggaatggaa gacctgtgtc gctgccacag actgcagctg gaagcagatc gcggagccgg 240  
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tcgtgtggaa ctactaggac gcggaccccg actttgggtc gtgccaggcc aaggagctcg 360  
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catttgaagt ga 432

<210> 30433  
<211> 301  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B6

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tgttagagcag ggctgcgact atgactgagt accttcaagc ttatgaactt tattaggatt 240  
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<210> 30434

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B8

<400> 30434

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 gcacacgcag ccccgccgcc atcccgattc ctccgtccgc ttcccctccc cgggtccccgc 180  
 gcccgagcc cccgccgcca tcccgattcc tccgccgct tcccctcccc gcgcccgcgg 240  
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 ggaggacgag atcgagatgg ccgtgagcgc gaagaagcaa aaggcggcgc caccggcgaa 360  
 ggccgtgccg acgtccaaga aggacgcaa ggaggacgcc aagtccaaga agcagccgcc 420  
 cccaagaag gctgagaaca gca 443

<210> 30435

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A12

<400> 30435

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 tttgatcagt gactggctgc tgctccatag aagatgaacg gagagaagga tgatgaaggg 180  
 ctttggcaat cgccgtgca actgcaaccc atgccatgcc ggcttagtga ttgggtataa 240  
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 cgtccgatat ctttctttct ttttcccccc ttttcgactc tgtactgaaa ctgctgagag 360

attcgcagta ttgttgatc gtattcatat gctactgtt

399

<210> 30436

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<212> DNA

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ttggcgccctc gtgctgcacg taataaaaag agttatgttg aagatcccca gtttgacaaa 180  
aataataaca ggaaaagacg tgcagttgaa gcacaagaaa agccaaggag gcgttctggc 240  
agaacagtgg aaacagttaa ttcagtacca ttggttgatg gagcagtagc tcaagtacga 300  
gagtgggtctt ttggtaatat tccaaagaag gatgcttctc gttttgtacg agcggttaaa 360  
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<210> 30437

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-G6

<400> 30437

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actccgcccc cctcaagcgc tccggcaaga tggagctccc tgagtgggtt gacattgtga 180  
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tctacggtgg ccgccagagg aatggctccc gccaccaca cttctgcaag agcagtgggtg 360  
ctgttgacag caacatcctg cagcagctgc agattatggg catcatcgat gtccatccca 420  
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<210> 30438  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<210> 30439  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-050-Q1-K1-G8

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 gcgcagacgg ggacgcgccc cgagaagatc cgcattcaga agtggtacaa catctacaag 240  
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<210> 30440  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-050-Q1-K1-H1  
  
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 ccattgctca aggtatggcg tttggcacgg gtagtgccat ggcacacagg gctgttgatg 300  
 ctgtattagg tccccggacc attcagcatg agactgttgc ctcagaagct gctgctgctg 360  
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<210> 30441  
 <211> 443  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-050-Q1-K1-H10  
  
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 gctgcctatt cggcgcagca tatccaaatt ctacaatggt aaatccaaat catttgtgtg 360  
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 atactccaga taacggaaga atc 443

<210> 30442  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-050-Q1-K1-H12  
  
 <400> 30442  
  
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 gcaagtccac gctgctccgc gcgctcaacc gcctctggga gcccgcgccc ggcgccgtgc 240  
 tcctcgacgg cgccgacatc tgcgccctcg acgtcctcgc cctgcgccgc aaggtcggca 300  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-050-Q1-K1-H2  
  
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 cacagccatt gttcttgaag ggacaaagtc ttaatccttg tatgagggtt acatatggat 180  
 tttccctgcc acatgcacac cgattcagtg cttggatggg gaggggtttg acataggagt 240  
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 catataaacg aattagctat t 321

<210> 30444  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-050-Q1-K1-H3  
  
 <400> 30444  
  
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 aaccaaacat aagggtcggg tttttcaaca atttaac 97

<210> 30445  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H4

<400> 30445

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gtggaactga gcttgaatgt taagaagtgt tcctttgttc tcttctcttc ttgatgactc 180  
tgtaaatagc tatgtcaatc tggttaagtt tggtttggtt gcatgtgcct gtgttcgctg 240  
ccctttggat agaatgcaaa ttaaagatgt tgctattgca caaaagaaac caactttacc 300  
aaaaactgaa gcataataaa gttttacagt ttttgagcta ataaaaaaaa agggcgccct 360

<210> 30446  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H6

<400> 30446

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cggggaacca gctgcccac gccacaccg ggctcggcat cgccatcgtc gccttcggga 180  
tctacctcgt cggcgaggcc gcttacaacc gcctctaccg cccctccggc gacaaccacc 240  
actagatcgc cggcaggatc cgtgactcgg tcaagaagct ggagccaact ttaccaagca 300  
ctggtgctgt tgatgttttt acagttttga gtcataagg tcagccatga ccatattgta 360  
atctgtgacc aggtagactt gccactgggt ccgtccaact a 401

<210> 30447  
<211> 435  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H7



<400> 30447

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gtgaggttct tcggattcac acgaaaaaca tgaagcttgc tgaagatggt gacttggagc 120

tcattgcgaa ggatactcat ggttatgttg gtgctgatct tgctgccctt tgtactgaag 180

ctgctcttca atgcattcgt gagaagatgg atattataga tcttgaggat gagacaatag 240

atgctgagat actgaactct atggctgttt caaatgatca tttcaagact gcacttggga 300

caagcaaccc atctgctctg cgtgaaactg ttgttgaagt gccaaatgtc tcttgggaag 360

atattggtgg cctggaaaat gtaagaggga gctacaagag actgttcaat atccagtga 420

gcattcagag aaatt 435

<210> 30448

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H8

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gttttgtcaa gaccacaag agcaatgcat acttcaagcg tttccagggtg aagttcaaga 120

gaaggcgcgc tggcaagaca gactacaggg ccaggataag gctgattaac caagacaaaa 180

acaagtacaa tacacccaaa tacagatttg ttgtgcgatt taccaacaag gacatcacag 240

cacaaatcat ctctgctagt atagcacgtg atatggttct tgcttctgct tactcgcatg 300

agttgccacg atatggtctt gaagttgggtc tgaccaacta tgcagctgcc tactgcactg 360

gccttctgtt ggctcgccgt gtgctcaaga cccgtggttt agataaggaa 410

<210> 30449

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H9

<400> 30449

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aaaaaaaaaa aaagagagaa atacacacaa accaacaaga caaaacaaaa caaaaaaaaa 120  
 aaaacaaaac aaaaaaaaaa caaaacacac acacaaaaca aacaacaaaa acaacataaa 180  
 acatacaaaa caaaaacaaa aacaa 205

<210> 30450  
 <211> 355  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-G4

<400> 30450

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 ctgcaatgtc atgacctaca agcctgagtt caccgaccac ctacgcaca agctgaagca 180  
 ccacccctga cagatcgagg ccgccgccgt catggagcac atcttggaac gcagctccta 240  
 catgaagctg gcgaagaggc tcggcgagct cgacccgctg atgaagccga agcaggacaa 300  
 gtacgcgctc cgcaccttcc cgcagtggct cgggtccacag atcgaagtca tccgc 355

<210> 30451  
 <211> 61  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-A10

<400> 30451

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<210> 30452  
 <211> 419  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E6

<400> 30452

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ggcctgacca cccgcacccc cgtcagtcac ggcagcggca gcaggcggag gcgcggtgcg 120  
 tgcgctgtcc cagaaggagc aggacataca gatgatgttc gccgccgacg tccaccttgg 180  
 caccaagaac tgcgatttcc agatggagcg ctatgccttt aagcgccgca ccgacggcat 240  
 ctacatcatc aaccttggca agacatggga gaaactgcag cttgcagcga gggttatcgt 300  
 tgccatcgag aaccgcgagg acatcatcgt ccagtcggcc cgcccctatg gccagcgtgc 360  
 tgtcctcaag ttgcgtcagt aactggcgc tcatgccatc gctgggaagc acaccctg 419

<210> 30453  
 <211> 327  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E7

<400> 30453

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 ttgtacatta gtagagctct gcgacaagag cgctgataca actagcttcc ttttgccttc 120  
 taattaaaag gttgaatgta aattcgttta atgctgatac cagttctgat gatttttcta 180  
 ctggttcctc cgattctgga ggccagtgcg atttctgcaa ataaataagc cttctggtga 240  
 agcaatgggt cttaaaaaaa aaaaaataat aaactaaaac taaaaaaaaa taatatataa 300  
 aaaataataa aaacaaaatt atataat 327

<210> 30454  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E8

<400> 30454

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 gggcgatggc ccggctatcg gcacgatctc cggcacgacg tactcttgcg tcggcgtgtg 180  
 gcagcacgac cgcgtcgaga tcattgccaa cgaccagggt aaccgcacca cgccctcgta 240  
 cgtcgcttcc accgactccg agcgctcatc cggagatgcg gccagaacc aggtcgccat 300

gaaccccatc aacaccgtct ttgatgccaa gcgtctcatc ggcaggaggt tcagtgatgc 360  
gtctgtccag agtgatatca agctgtggcc cttcaaggtc atttctgggc ctggtgagaa 420  
gccaatgatt g 431

<210> 30455  
<211> 348  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-050-Q1-K1-E9  
  
<400> 30455

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gggtgagggg atggacccta gcctgaagga ggaggtgatg aaggcgggtg aggaggcgag 120  
gtccgcggcg gcgcgcgggt gccgggtggt gcggatcatc gtgcacgacg aggacgccac 180  
cgactcgtct tccagcgacg acgagggaga ggaggcgggg gagcgcgccg cggcgcaccc 240  
gggcgcggcg ccggcgggga gcgtgaagcg cagccgcgtg ctgctccagt ccgctgggtg 300  
cggggcggag gaggacggcg agggggccag gttcacgggc gtgcggcg 348

<210> 30456  
<211> 424  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-050-Q1-K1-F1  
  
<400> 30456

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ccaacgacga gcatccgggt tagagaggaa gaaattgcaa ccgaaacaat ggccggcagat 180  
tccggcgctc gcagacaacc aagcttcacc aaggtcgacc agctgcgcc tggaaaccac 240  
ggccacaacc tcatcctcaa ggttggtgac tccaagatgg tcgtccagag aggcgcggag 300  
ggagggcccc aggaagaca gatgaggatt gcggagtgct tggttggtga tgaaaccggc 360  
atcattgtct tctactgcaag aaacgatcaa gtggatgtaa ttaggcctgg aacaactgtt 420  
gaac 424

<210> 30457  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-050-Q1-K1-F10

<400> 30457

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cgcccgcattg gccaaaggcca aggagcaggg caagctgggtg gtcattcgact tcatggcccc 180
ctgggtgcagt ggggtgccaga tgatggcccc ggtgtacgcg gactgcgcca gcaagtacct 240
ttccgcggtc ttccctcaggg tcgacgtcga cgaactgctg gaagtcgcga agatctacgg 300
cgtccattgtg atgccgacct tctgcttcatt caggaacggc gagacgctcg agagctttgc 360
taccgtcgac gaggacgagc tccgggacgc cgtcaggaag tacgccgncg ctggcactac 420
gacggctcct gcctcggcg                                     439
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<210> 30458  
 <211> 391  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F12

<400> 30458

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gtaactcttg tcccaattcc atccagcgat gcattccggt gcgcgacacc atgagggagt 120
gcatttcgat ccacatcggc caggccggta tccagttctg aaaccctgac tggcattctg 180
actgccttga gcatgacatt cagactgacg gtcacatgac cattgacaag accattgatg 240
gaggtgacga tgctttcaac accatcttca ctgagactgg cgctcgggaag cacgtgcccc 300
gtgctcttga tgccgacctc gaaccactg tcatcgatga cgcgaaactt gggacctacc 360
accagcactt gcacactgag cagctcatca a                                     391
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<210> 30459

<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F3

<400> 30459

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caacattgag cacttccgca cggataagtt tgggtatgca gatgttggtg aggaagtctc 180  
tgttggagag ggcaagggtg tgaagatcac tggaatcaag gacatgggta ggaccgcaac 240  
tgtacttgtc aggggatcta accaattggt tattgatgaa gctgaacgca gtctccatga 300  
tgcactctgt gtcataaggt gcttggtcag caagagattt ttgattgctg gtggtggtgc 360  
tccagaaata gagatgtcaa tgcagctggc tgcttgggca aaggagcttc gagggatgga 420  
gagttactgc atcaag 436

<210> 30460  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F4

<400> 30460

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gtcagtgcgg ggaggtccct ggttgathtt gctgcgatgg ctgtcagcca ggaaccctgt 180  
actggatctt cctataaact gtagcgggtt ttcggaagct agtggaactt tgtaaaggcc 240  
tcgtagtgga tccctagcca ttcacctcgg tagtgtctaa gggccttgca aaccagggcg 300  
acatgggata cagcacttgt gggtaaagat gcgcaacctc tgcagagtgt aaaactagta 360  
tactagccgt gctcacggtc aagagcggct cggaccctca catgattaat tatggaactt 420  
aaaattaatt tgacatctg 439

<210> 30461  
<211> 361  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F6

<400> 30461

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gagatgttcg atggcggcgg ctgatgtgga gtaccgttgc ttcgtcggcg ggcttgctcg 120

ggccaccagc aacgagtcgc tggagaatgc cttcgcctcc tacggcgaga tctcgcactc 180

caaggtcatc accgaccggg agacggggag gtctcggcgc ttcggcttcg ttaccttctc 240

ctccgagaac tccatgctcg acgctatcga gaacatgaac ggcaaggagc tcgacggccg 300

taacatcacc gttaaccagg ccagtcctcg tggcgggtggc ggtggctgcg gtggctactg 360

t 361

<210> 30462

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F7

<400> 30462

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tgggccagct atcatgtatg cttgatactg accacttacc cttgaatcta gcggcgcttt 120

tggtgagagg gtgcaattta ctttaaacad ggctcgtgac ttgctgtaaa tagtagtatt 180

aatcgattcg ggcattctagt aactaaatta aggggtgtgta tggttaggct tttgatttct 240

aaacgacaaa agccaaacta aagagctgga tccataaaat agcattttct aaaagtcaga 300

ctttgtggcg gtacaaaaaa aaaaaaata ataattattaa taattataaa aaaaattata 360

ttaaataata tatatt 376

<210> 30463

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 30463

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tctttggacc ctcttttggg ggaggtggtg gaagcagcag gggaagaagg caaaggaggg 180  
gagaagatgt agtccactca cttaaagttt ctctggaaga tctttacaat ggaatctcaa 240  
agaagctctc tctttcacgc aatgtcatct gctccaagtg caagggcaag ggctcgaagt 300  
ctggtgcttc aatgaggtgc cctgggtgcc agggctcagg tatgaaagtc accattcgcc 360  
agcttggggc ttccatgata cagcagatgc agcagccttg caacgagtgc aaggngactg 420  
gggagag 427

<210> 30464  
<211> 434  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-050-Q1-K1-G1  
<400> 30464

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cttcgaggca accggtgcac caggcctgag ttcttgaata agcccaggaa ggagaaggg 180  
aagaagtcaa aggcgaagaa tgaaaagaag ggcaaaggtg agggcatgaa gcgtaagcgt 240  
gatgatggca ccgaagatgt ggatgtcaag gatgggaaga aggtaaagaa ggaagctgag 300  
gagaagccag atatcatgta cgcaaagtgt tttgttgacc caaaggaagc aaggcgcaag 360  
aagaagagga gggttaagaa caagaagaag gcactggagc aggctaaacg gttgcaggaa 420  
gcaaagaagg atcc 434

<210> 30465  
<211> 154  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-050-Q1-K1-G10  
<400> 30465

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gccactgttt aaacggaaca aataatgatg ttgcatgtgg ctatcttttag ttatgtggta 120  
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<210> 30466  
 <211> 451  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-050-Q1-K1-G12

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 aggtccggag tgcacggaat tttcttctaa aacaatacgc cggatatgaa gaaagtgaag 180  
 aggccattga aggtgcttat gacaagataa taatgaatag ctacacagac cgtaagaaat 240  
 ccaaattcaa tctgaaaagc aagctaaaag agcaagttga aggatcccca tcatggctta 300  
 aggcaactgct tggatatttt gaggtgccat cactagagat catttcaagg agatttgcct 360  
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<210> 30467  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-G2

<400> 30467

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 gtgacatcaa aggggtggaga tgatgagttc tcagagctat atacattcaa atggactacc 180  
 ttattgatac ctctaccac ctgccttcta ttgaacttca ttggtgttgt tgttggcatt 240  
 ttgggtgatt gcattacctc ccgaggcact gaggtcgctc tcaatttatt tggtagtggt 300  
 gacttgatcc ttggcggcaa cccctggact ggtctttgag ttgcagcaga gcgttgtcac 360

taggaacgcc atgatacacg agtatgctg cgacaacgcg gaggtcagg agtgggcgtt 420  
ggagttggt 429

<210> 30468  
<211> 361  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E5

<400> 30468

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gtggggcacg gaggtggatc attgcccgtc cgctcctgc cccaccgcgc cgggcatcgc 180  
cgtcaagggc tgcccgggtg tctgaatctt ccgagacctg agcgtagtaa gcagtgtgtg 240  
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gatgcagtgc tttgtcactc gtgaatgtaa caccatagcg ccagtgggtg attcagattt 360  
c 361

<210> 30469  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C3

<400> 30469

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gcacaagcgc cgtgccaccg gtggaaagca gaaggcctgg aggaagaagc gaaagtatga 180  
gcttggtcgc cagccggcca acaccaagtt gtcaagcaat aagacagtga ggagggtccg 240  
tgttcgtgga ggtaacgtga agtggagggc tcttcgcctt gatactggta actactcatg 300  
gggaagtga gctgttacc gcaagaccgc tctcctcgac gtggtctaca atgcatcaaa 360  
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cccatte 427

<210> 30470  
 <211> 180  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-050-Q1-K1-C5  
  
 <400> 30470  
  
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<210> 30471  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-050-Q1-K1-C6  
  
 <400> 30471  
  
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 ctgtccgtgg ccgaaatcac caacagcgcc ttcgagccat cctccatgat ggccaagtgc 180  
 gacccccgcc atggcaagta catggcatgc tgcctcatgt accgtggtga tgtggttccc 240  
 aaggacgtga acgctgctgt ggccacaatc aagaccaagc gcaccatcca gttcgtggac 300  
 tgggtgcccga ctggcttcaa gtgcggaatc aactaccage ctcccagcgt cgtccccggc 360  
 ggtgacctgg ccaaggtgca gcgtgccgtg tgcattgatc ccaactccac cagtgttgtg 420  
 gaggtcttct ccgc 434

<210> 30472  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-050-Q1-K1-C7  
  
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gtcgccgccc acgtccgccc cgaggtcgcc gccgatgtgg ccgcgctctc gtcggccccc 120  
ggactcgtgc cggggctggc cgtgggtcatc gtggggagca ggaaggactc gcagacgtac 180  
gtgaacatga agegcgaaggc gtgcgccgag gtcggcatct gctccatcga cgtcgacctc 240  
ccggaggaca tctccgagac cgcgctcgtc gccgaggttc atcgccctcaa cgctgacccc 300  
gccgtgcacg ggatccttgt ccagcttcca cttcctaagc atatcaacga agagaagata 360  
ctgagcgaga tttccatcga gaaagatgtg gatgggttcc atcctctcaa cattggcaag 420  
cttgcaatg 429

<210> 30473  
<211> 433  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 30473

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ggatcacaag aaggctggtg ccatgaatgc actgggtccgt gtctccgctg tcttatcaaa 120  
tgctgcatac ctactgaact tggactgtga tcactacatc aacaatagca aggccataaa 180  
agaggctatg tgtttcatga tggatccttt ggtggggaag aaagtgtgct atgtacagtt 240  
ccctcagagg tttgatggta ttgacaaaaa tgatcgatac gctaacagga acgttgtctt 300  
ttttgatatc aacatgaaag gtttggacgg tattcaagga cccatttatg tgggtactgg 360  
atgtgttttc agacggcagg cactgtatgg ntatgatgct cctaaaacga agaagccacc 420  
atcaagaact tgc 433

<210> 30474  
<211> 148  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D11

<400> 30474

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aacccaacc ctaccactac ataaacac

148

<210> 30475

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D12

<400> 30475

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ggga 64

<210> 30476

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D2

<400> 30476

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ggagcgaaca agcagcagtg taaatcctct tgagtctgca cttgcacagc tgtcattctc 120

tgaagcacc tctgcaccaa atgtgtcagc ttatcctgtt tctcttgatc ccactttgaa 180

agcaaattgat ggaggacatt catctgtgct agaccagtca cattccttgt ttgatgcgcc 240

ctttggaatc tcaggcaacc aggcctcaac agtaatgtcc ggccaaggat catcagttca 300

acaatctcct ctagctgccc caacagctgg acctccatct caagctactg caaatccaca 360

aggaaccagt ggtattcaag gagcagcctc ttctactgac agtaaattct gtagcaggaa 420

agaacttcca gcggata 437

<210> 30477

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D4

<400> 30477

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ggaagaagcc tgtgatgaac gaatgaatat ctccagaagc tttgttcaat gtgcaaccaa 120  
 gtccgatgtc cgtctgctct ggtcagctta aaaccaacgc ttccaataat cctattggtg 180  
 tcttagtttc cccttatagt gttatttgct cggcttgaac atggcaacgg aaatgaaact 240  
 tgaactatgg tactgtcatc aatttgagac ccccatgatt gac 283

<210> 30478  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D6

<400> 30478

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 caacaagggtt cttcttgacc agaacttaat tgaagcaatg ccaacttcac cgatttttgt 180  
 tgggaacaag gcaaagcggc tactggaaag agctgtttgg aacgatacat ctttcctagc 240  
 tggaatcgat gtgatggact attccttgct tgtgggagtc gacgaggaga aacatgaact 300  
 ggtcttagga attattgatt ttatgaggca gtatacatgg gacaagcacc ttgaaacatg 360  
 ggtaaaatct tct 373

<210> 30479  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D9

<400> 30479

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 gcatccacga ccaccgccgc cgcctccagc ggtggggtca ctttcaagct ccaccgcgtc 180  
 gtcacgtga acgtctccga ccaccacacc cgcgtcaagg ccagggccgc ctgctccggg 240  
 gacagctctt cccctcctc gtccgccccg ggggcccggc agccgccgag ggtgttcggg 300  
 tgcgtgatcg ggggtgcagc cgcccgacc gtggagatct tcaacagctt cgagctcgtg 360

ctcgaccccg tctccggaac cctcgaccgc gccttcctcg acaagaagca ggagctctat 420  
aagaagggtgt tccccgactt ctacgtgctc 450

<210> 30480  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E1

<400> 30480

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acatttagag cttcctcagg agattatgca ctggtttaca gccaatgaag cagaaaagtca 180  
catacatgtt gtcccatgt ggactctagc aagcttcaag cggatgaaat atctatcgaa 240  
tcaatatgct ggccggtatg accttatagt ggcgttttgt cctactgggtt gggcatttgg 300  
caaaggtagg aaaaagacac caggcaaaag gtggcaacaa ggatcaatca ttagatatga 360  
agtgccttac agtgaacaca gcagtttcac ggaactgcag cagtttgtca agttcatatc 420  
accagagcac a 431

<210> 30481  
<211> 411  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E11

<400> 30481

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agctggagga gcttatgtca tgtgcagttg ccgcatgcgc caatgctcct gtgtttgtaa 180  
aggctggagc tgaggtgctg cggctatcat ctgggtccgc gataagttaa ttgtactgat 240  
agttgatatc taactactat tttgtgtatc aaatgaaaat gttggaacta aaggatcgga 300  
tggtataggt gtcttatgaa cctgttctgg ctggcaaaat taaccagaaa tatggatttg 360  
ccaaaaaaaa aaaaaaaaaa ataaatataa aaaaagaaca atatataataa a 411

<210> 30482  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E2

<400> 30482

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ggccgcgcaa ccccgctctt cactgcggc gcaggcttcg ctccggctcc gctcggctcg  120
agcagaagaa aatgcaacgg gcagtgcagg ccgtcaggtc acacggcaat gttcttaaat  180
atgctgttct acaacacatc agcgtcccca agccagcaat gcttcctgct gccttttctc  240
gtttcatgtc agtttcatct gtcgcctag aggatcgtgg atttgaaact gccactgtag  300
cagatgtctt gaagtctaaa gggaagagtg ctgatggatc ttggctctgg tgcaccacag  360
aggatagcgt ctatgacgct gtcaaatacta tgactcaaca caacgtggga accttggggg  420
gttgtcaaac                                     430
  
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<210> 30483  
 <211> 354  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C2

<400> 30483

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tcgaccaacg tgaacctgga gggggtggac accttcgccca tctcgtcga agcctgcaag  180
ttcgtagcca acatcatcgg tgagcccgag gtctacgcga tggttgttct caagggttct  240
gcgcatatgg catttcgagg ttcccatgag ccacaagatt acgcgcagct ggcttccatc  300
ggactgctga accctgagtg aacaagaggc ttaacgatga atctgctata tcct      354
  
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<210> 30484  
 <211> 105  
 <212> DNA  
 <213> Zea mays



<223> Clone ID: LIB3067-050-Q1-K1-E3

<400> 30484

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gttgcaggtg gtttgagtcg cgctacacgc tgtacatacc ttttg 105

<210> 30485

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-E4

<400> 30485

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ggtcggcgcg gcgaagatgt cggggcgcg caagggcggg aagggcctgg gcaagggcgg 120

cgcaagcg caccggaagg tgctccgcga taacatccag gggatcacga agccggcgat 180

ccggcggtcg gcgcgcaggg gcggcgtaga gcgcattctc gggctcatct acgaggagag 240

ccgcggcgtc ctcaagatct tcttgagaaa cgtgatecgc gacgccgtca cttacaccga 300

gcacgcgcgc cgcaagaccg tcacagtcag ggacgtcgtc tacgcgtca agcgccaggg 360

ccgcaccctc tatggcttcg gcggctaggg taggcggggc ctgcctgggt gtcgtcgctg 420

cgg 423

<210> 30486

<211> 396

<212> DNA

<213> Zea mays

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<400> 30486

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ggggtccgcc gcgtcctcag gatccaccac aaccgcgcgc cgctggcccc cttcgaggag 120

taccgcgacc tggtcgcgc ccgggccgcc cggcgctgcg gcggcgaggg cgccgtggtg 180

gaggagcgct gcatcgcgga cggcaacgag cgctgcgct tccactgctc caccatgctc 240

tgctccctgg gcggcggcgt gtgcgggagc ccctactgct gcgtgtgcag caccctgcgg 300

caccggegac gacgtcgagc tgctggtgta caaccccaga gcagtgtctcc cgtgctttgt 360  
catcctctac agcagcagct agtcggtggc atgaca 396

<210> 30487  
<211> 436  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ggtgctgcgc gacctggacg cgctgttcgc gttcccgcag ctggcggcgg tgggcaacga 180  
cggtcgcgtc ttcaactcgg gcgtgatggg gatcgagccg tcggcgtgca cgttcgacgc 240  
gctcatgcgg gggcgccgga ccgtccgctc ctacaacggc ggcgaccagg ggttcctcaa 300  
cgaggtgttc gtgtggtggc accgcctgcc gcgcggggtc aactacctca agaacttctg 360  
ggccaacacc acgngggagc gcgcgtcaa ggagaggctg ttccgggcgg acccgnccga 420  
ggtctggtcc gtccac 436

<210> 30488  
<211> 326  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B11

<400> 30488

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gattgttaat tttttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagacaaat atataaatta caaatcttac 180  
aacaacaaaa aacaataat tagattacca taaataaaaa cacaatttaa ataatttaca 240  
actttattaa ctaataaatc atattatgaa aaccaattaa ataaccaaat aaaaatttat 300  
tatactctac acaattttttt aaaata 326

<210> 30489  
 <211> 111  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-050-Q1-K1-B12  
  
 <400> 30489  
  
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 catctattcc cattgagtga atacaggact accacatgaa gtatttgctt g 111

<210> 30490  
 <211> 404  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-050-Q1-K1-B2  
  
 <400> 30490  
  
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 ttgtcaaag ataaatacca agtaatcaag ccacctgtag attttgaatg gtttgaattt 180  
 gaaaatgaat ccaggctatc caaaaacctt tatttgggaa aatcagagaa aggggtgtac 240  
 tgtgctttgc gttatccgtc aaccgtttcc ttttcgattt acattctcga tgaatctgac 300  
 ggcaaaacgg agtggataat gaagcctcac tattatctcg ggagtcaagg aatngacggg 360  
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<210> 30491  
 <211> 434  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-050-Q1-K1-B3  
  
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 cgaggggggtg aaaaacctca ccgttacggg agatgcgggc gcttcaggcg gagaggggca 180

gaggaggggc ggcggcgga gcagcaaccg catccaggtg tccaacacca agaagcccct 240  
 cttctttctac gtcaacctcg ccaagaggta tatgcaacag cacgacgatg tagagctatc 300  
 cgctcttggg atggccatag caacagttgt gaccgtggca gaaattctga agaacaatgg 360  
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 gcgtccattc caaa 434

<210> 30492  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B4

<400> 30492

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 actacagcgg ctggttaagta attaatgacg gtaatttccc tccccgatgc tcgctcctgc 180  
 ctgcagcaac agctctctca ctctctccgt ttgtcttttt tctgtcctcg aaagggctgg 240  
 cgcggaagcg gagtgggaaga tcctgtacag tctcggcaag gacggggacg gcctcctccg 300  
 caaggacgtc gcgaggagcg tctacgacgg gacactgttc caccggctcg cgcccagatg 360  
 gaaatctccc gacagcgaca tggagagaag ctgataagcg tgggtccggga gaacctgaac 420  
 cggtctggac atg 433

<210> 30493  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B5

<400> 30493

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 tgatcgtcac ccatggccac tgccgaggtc cagaccccga ccgtcgtggc gaccgaggaa 180  
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gccgaggcca aggtggacga gccagctgcc ccggcggaga ccgagccagc tgccgccgct 300  
gagcccgagg cggcccccggt ggccggcgag gaagagacgc caaaggagga agagacggca 360  
aaggaggcgg agccggagcc ggagccggcg gcggctgaag aggtgaagga ggaagcggca 420  
gcgccccgt 429

<210> 30494  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B6

<400> 30494

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cggcaagggt atccttgctg ctgatgagtc cactggcacc attggcaagc gcctttccag 180  
catcaatgtc gagaacgttg aggagaaccg ccgtgccctc cgtgagctcc tattctgctg 240  
ccctggtgct ctccagtaca tcagcgggtg gatcctcttc gaggagaccc tgtaccagaa 300  
gaccaaggat ggcaagcctt ttgttgatgt cctcaaggag ggaggcgtcc tccttggcat 360  
caaggatgac aagggcacca ttgaagtgtg tggcactgat aaagagacca ccaccaatg 420  
ccatgac 427

<210> 30495  
<211> 432  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-050-Q1-K1-B7

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gtgggggtata accattggtg ctggccttgc ctctacccc attgacactg ttcgccgtcg 180  
catgatgatg acatctggtg aggccgtcaa gtacaacagc tccttgagcg ctttcaagca 240

gattgtcgca aaggagggtta ccaagtcctt cttcaagggt gctggcgcaa acatcctccg 300  
 cgctgtagct ggtgctggtg tccttgctgg gtacgacaag ctccagggtg ttgtcttcgg 360  
 caagaagtac gggctcgggtg gtggctaagg atgtataatg atgatgacga cgaacaacan 420  
 acatgatggt tt 432

<210> 30496  
 <211> 432  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B8

<400> 30496

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 cgggatcgct ctgaacgacc acttcgtcaa gcttgtctcg tggtagcaca acgagtgggg 180  
 ctacagcaac cgcgtcgtcg acctgatccg ccacatgttc aagaccaggt agagggtttt 240  
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 caggttcatt ctgagtcctg acatgttttg cacttttggt tccatttctg ccatcatctg 360  
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 tgcagttttg tt 432

<210> 30497  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B9

<400> 30497

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 ccatttcgaa gatttttttt cacctgagct tgacaaacat ggatatcagg cgctttacaa 180  
 gaaaaggaca acagagggtg attctggaaa tcctatggcc atagatggat gtgctacttt 240  
 ttttcgtaga gacaagtttt cacatgttaa aaaatacgag gttgagttca ataaggctgc 300

acagtcttta acagatgcta ttattcctgc tgcccagaaa agagtggctt taagtcgatt 360  
gattaaagac aacattgcac taattgcggt tttagaagcc aaatttggtta atcatggagc 420  
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<210> 30498

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C1

<400> 30498

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ttggtgagat caaaggacgg ggacaagggg agagtgaggt atcaggcttc cataactgga 180  
ttcagtttta cctggaagaa gccaagggaa atgtggatta ccaaggttat atatttccaa 240  
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atggcgtgct gaaatcggtta tccagcacgt tgattggcgt cagtcctgag tttgaggttg 360  
cactctacac gttgtgcttt tttgttgag gggaagataa ccgctcgat attggcccg 420  
atagtgtgaa cgtca 435

<210> 30499

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C10

<400> 30499

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agacattttc aataaatgga gaggacctct tttaacgtta ttac 104

<210> 30500

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C11

<400> 30500

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gagcagcaga ggagcttcgg cagacacttt gatatggaag atgagcttgt cagccggata 120

tcaagaagat ctattgatat tttgaaacag aactacaggg aggatttgac aactgaagac 180

tggaaacttg ttgtaaagtt gaaatcaata ttgaagatac aatgaaaagc cccctcccct 240

aacacacctg cccatgaatt tgggagttgt ggttctgtgg cgccacacct atctctagtt 300

ctctacaccg gagttcccca gggaggggta ccaattttga tacgggttga tttttgtaat 360

ttgctcggaa ggcgcttcat tttacaacca cattccgtaa taacataata ttttgtgttt 420

gtttctgtac ttttcatgaa ctctgaag 448

<210> 30501

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A7

<400> 30501

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aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaagcc gccccctttt aaaaaccccc atcttttaaac cctcgtcaac 180

cactctttat ctcttttaat atgtcccca aattaaaaat ccatccccct tcacataaaa 240

actcactaat tcaaaaaccc cttact 266

<210> 30502

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-C12

<400> 30502

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gaagatgtcg tacctgtgc cgcactgca ctcgggggtg gcggtggacc aggccatcct 120

cgccgaggag gagcgctcg tcactatccg cttcggccat gactgggacg agacctgcat 180



gcagatggat gaagtgctag cagcagtagc tgagaccata aagaactttg cggatcatcta 240  
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 gacagtgatg ttcttcttcc ggaacaagca catcatgatt gatctcggga ctggaaacaa 360  
 caacaagatc aactgggccc tgaaggacaa gcaagagttc atcgacattg tggagaccgt 420  
 atacaggggc gcccggaag gccgtg 446

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 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-049-Q1-K1-H12  
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 aagtggcgac aaagctgcgg acgcagtgagg agcagttcgt gcaggcccg cagttctgga 120  
 gcggcctgga cctgggagtc ctgcagctcg aggtcaacag gatggcgagc atcctagaag 180  
 cagcaggaac ccgaatcggg tcgtcggcga cggcctacat gctgtcgtgg ctgtcgagct 240  
 accagatgca gcggccgacg gccatgggct cgccgagcat cgtggccgcc gcgttcgtca 300  
 ccgtgaagat gcagttcacg ctgcagcagg cgaccatcgt caacactcgt ccaccacat 360  
 gcatcggcgg ctgcccggcg tgcgagtgcg ggtgcgagga ccgctgcgtg cagccact 418

<210> 30504  
 <211> 144  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-049-Q1-K1-H3  
 <400> 30504

cccacgcgtc cgaccacgcg ttcgaaaaaa tttaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
 aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa ataa 144

<210> 30505  
 <211> 466  
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-049-Q1-K1-H4

<400> 30505

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gcctcccgtc tccgggtccg ccgcgtcggc gccgcgcgtc cccagctccc caccacgaat 180

ccggaggtag cttctgggga gaagaagatc agatgggtcat caagggctgt gcggtctttt 240

gcgatggcag agctggaggc ccggaagatg aggtacccta ccacaggcac cgaggggctc 300

ctcatgggca ttcttgttga aggaactagt ggcgagcaa aacttttgcg tgctaattga 360

accacacttc tcaaagtgcg tgaggaggca gcgaatgttc ttgggaaatc agaaatgttn 420

tacttttagtc ccatgcattc accattgaca gaagctgcac aacgag 466

<210> 30506

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H5

<400> 30506

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tcctgcaacc gagcggctcc ctggcgacg cttgcttact gcgcgtgctc gacggacgga 180

gctctctagc gcgctcgccc atgccgcgcg cagccaagct agacctgcac gtacatctga 240

ctgctctagc tatgacgcca cgctagctcg cctgggctga gatacggcgc ttggcgccctg 300

attctctgac tctgtacctg ctgccaaagg tttttcagtc cgggccctgc ttgatggaac 360

tcgacccggg ccccttatgc atgcacggct taacactgtg cccggtacta agcagtgtt 420

cgatgaagcgc tgaacttaac tcggtct 447

<210> 30507

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H6

<400> 30507

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gaagaactac tacttcctat attcaatacc agatgaaaat gtgcaggaga taaagatcag 120  
tccaggaatc atgctcttga tatacgacag aacaccaagt tatgtcccat tgaagatatt 180  
atctattgaa gatgggaaac aactgaaatt ttttaagcac ttgttacatc gcaacaagaa 240  
aattgatttc attgagcagt tcaatgagaa gctccttgtc aagcaagagg acgaaaactt 300  
ccagatactt gatgtgcgga gttctgagct aattgaagtc aatgtctcca agtttatgac 360  
cccttcagca ttcatttttc tttatgagaa caatctcttc ttgacattcc gaaacagaac 420  
agtcgctgta tggaacttcc gaggagatct tgtgacttca tttg 464

<210> 30508

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H7

<400> 30508

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gcggccatta tcttacacca catgccatat agagttaagt atataatagt ctatgggtga 120  
gaaagtgcac atatggaacg ctgtatatag agggggctca agaattctaca gagcaactca 180  
tactctgtga tctacaaaa aaaaaaaaaa aaaaaataat aaaaaaaaaa aaataataaa 240  
tataacgatt tatttttaat ttaattatat gaacaaactt ttt 283

<210> 30509

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H8

<400> 30509

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gaagaaaata aaaaaaaaaa aaaaaaaaag gacaaccaag tggtaggcct ccctgctggc 120

tcccactttc ctcccgcgtg cttgcttctt ctatcgctcc tctctaagtc caacctaatt 180  
tcaattcatt tgtccgcttt ttacatggt aaaacctggg aaaaccctg cttacccac 240  
ttgaatcccc ttccactttt tccccctttc gccatttcgc ttagtcccga acaggtcgcc 300  
cttgatagcc tttcccaac 319

<210> 30510  
<211> 452  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H9

<400> 30510

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attccaagta cttttgcgag ttctgtggga agtttgctgt gaagaggaaa gcagttggaa 120  
tttgggggtg caaggactgt ggggaaggta aggctgggtg tgcttacacc atgaacactg 180  
ctagtgcggt caccgtcagg agcacgatcc gccgcctgag ggagcagact gaagcatgat 240  
atagctcttt atattattgg ggtttcctgt agttgctctt gtcaggcatg ttgtgggggc 300  
cttctctagt ggaaatgtgg aatcactgta ctggctgttt tgccgagaca atgctcctta 360  
tatttggttt atgctctagg atctcaaagt tgtggtgtta agatttgccc tcggttaccg 420  
ttctgaatct gacaagtgat atttgatcct at 452

<210> 30511  
<211> 303  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A10

<400> 30511

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agacagtcgg acagaaaaca aaaaaaccac agcaccaggc aaaacaaaag gaagaaaagg 120  
tgtgtgtgtg tgcagttgtt gcaattaccc gcagttaaga ttttaagtta acattttctt 180  
ttttttcatt cttacgttgt agatgtgtca ttgaaattat gtgggttagaa ggtggagtac 240  
ataactgtgt gtgtatttat aatagagggt tacttcattg aatcaagcta gtgtgaattc 300

tac

303

<210> 30512  
<211> 361  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-050-Q1-K1-A11  
  
<400> 30512

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ggaggaaaat gagccacccc taaacaccaa gcctgattac cctcctctcc ctgaagaacc 120  
tacaggaagc agggaccttc tctgcagggc tgcgattcgg ctaccgaaca accggaggat 180  
ccaaagaaac ttccttcaca cagatcctat caagctcttg tggtcattct gcgctcctca 240  
ggtcgaggac ggngagagga gggctttcca ctctgtccag gcaattcctg gggcatccca 300  
gaaactggag ttgggaagcg acctaacatt caaggaagcc gggctggcca actcgatgat 360  
c 361

<210> 30513  
<211> 356  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-050-Q1-K1-A12  
  
<400> 30513

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gtggccccggg gaatggactt caaagggtgc gcctgtgtga taaactacga ttttccagag 120  
tcggctgctg cctatattca caggataggg cgatccggaa gagccggtag gtccggggag 180  
gctatcacgt tcttcacaga ggaggacaag ccattcttga ggaatatcgc caacgtgttg 240  
gtatcttcag gctgtgaagt gccttcctgg ataatggcac tgccaaagct caagcgaaaag 300  
aagcacagag tggatagga cccaatctcc tacctacctg acgaagtttg agagcg 356

<210> 30514  
<211> 190  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A2

<400> 30514

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gggggtgctc taagacttac tcatcatatc tccaatctca tcttgtattt caaactacac 120

tctacaaaca atacagtctg tagtgtaaaa acattatttt gggtgaccat atgggtaacc 180

tgctgtacac 190

<210> 30515

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A3

<400> 30515

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ggaagtgtct gctgaagatg tttgcacagc aggacaagga tgtgttgttt atggagactg 120

tcataagcct ggccagacaa cggagacact gcatgattga gtgcattcct gtcccttgtg 180

aagtgtcaag caatgcccc aatgtacttca aaaaggctat tgatgaagct gaagaagaat 240

ggaccaaca tgagatgaag aaggttatcc cgacaagtgc aagccgcaac ttgaggcaag 300

tcatcccgga gaactttgcc tacttccatg tggagttcgg gctggaccgt ggctttgttc 360

atgtaataga tgacgagagc aagttcagtg ctggaatttg attgaatgac attagaggga 420

<210> 30516

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A4

<400> 30516

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tgaaggtggt agttacataa attgcgtggc ttaccagat ggccatgcta agaaaactac 120

tattggaaag ggattcgtac ggattttgga ttctatctct gctcaccaag cttttgcagg 180

agatttcctt gcttaccacc gcaaatcctt ggctcgtatt tctgaaccgc gcccgaatac 240  
actacatggt tatgctgaag tgattcatat aacaagccta gctgttcctt 290

<210> 30517  
<211> 346  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A5

<400> 30517

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gtcaccacca aggggctaca ggagaagggc gcgcagtcca agtcctcatg atcattatgg 120  
tggtcgtggt agggatctcc caaccagtct tctggtcagg aatctccgtc gggactgcag 180  
gccagaagac ctccgtcgcc catttggaca gtttggtcga gttaaagata tatactcttc 240  
aagagattat tacactggac gcaacacaag cctaaaagat tattgttgaa gagaaggaag 300  
aaatagagaa attcaattaa gtgatctgca acttaaaaga gtactc 346

<210> 30518  
<211> 439  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A6

<400> 30518

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gcctcttggc gtccgtcatg gtcgccatcg cgggtgtccaa gatccgtggc cgcaagctcc 180  
ggctgcctcc cggccccgtc cccgtgcccg tcttcgggaa ctggctgcag gtcggcgacg 240  
acctcaacca ccgcaacctc gccgcgtgt cccgcaagtt cggcgacgtc ttcctcctcc 300  
ggatggggca gcgcaacctg gtggtggtct cgtcgccgcc gctggcgcgg gaggtgctcc 360  
acacgcaggg cgtggagttc ggctcccga cccgcaacgt ggtcttcgac atcttcacgg 420  
acaaagtgca agacatggt 439

<210> 30519

<211> 449  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-H11

<400> 30519

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gtttgcacga gatccatgta ttcttcatcg tgttggtgaa gttcttttac cagccgctgt 180  
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ggtctctaata cagaaaactg tgcattgccat aaaaaatgct gtccaggcat tacgtggatc 300  
cacctaaaca catcaatatt ggccaatata tttattccaa tgtacctagc ctgaaggagt 360  
tttgccaacc agctacaaag ttagaagaag gaacatcagc cctgaaagca atctccacag 420  
tgatgttggtt attacagaga tatgagttt 449

<210> 30520  
<211> 306  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F6

<400> 30520

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acctccacat tcaaaactact tctacctatt ccttcaattt ttctctatc tatcaatctc 180  
cttaaccatt cctgattcacc tgtacatcca tcttgcatc tatgattctc tttctattca 240  
tgacacacac aacaacttct attccgaatc tttcttcaat cccatcttca atattcatgc 300  
gatcta 306

<210> 30521  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F7



<400> 30521

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gtaaagccgg ctttacatgc ctagaagcta gtacctagt tttgctgctg tctaatagaca 180

ttatgcaatg tgatctggac cctggtttct tgggtgcgac gctttagca gccgtcttat 240

gattatttgt cgggaaaatt tgggggctcc ccatatgaga tgctgccggg caagacctcg 300

ccatcccca cctcgtttca agcgggggac gctggagcct ggtccggttg ggttgggaag 360

ccccttaaac tgttgtcgt tgcattttaa ccttttcac ggcgttcagt ggtcctaaat 420

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<210> 30522

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F8

<400> 30522

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agagcttgca catctattta actaactaac taactggcta gctagctcga tcggcagagc 120

aaagcgaaag cagcaagaag caaagcaatg gagaaccctg cgagtgtgct agttctacca 180

gcgcagttca ccaaactcac cttccgaaac ctgtacatcc gccgggccgg gccgggcagc 240

aggagataa ccgaggaggg caggtgcgac ctggacaaga gatacgtgag tgacttcccc 300

gtctacgacg gccgcggccc cgacgccagc cttgtggccc gcgtgcaggg gatcaccagc 360

gaaatcggga acgcgcacaa actgttcgtc gttgttttcg acaccgacag gctcaagggc 420

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<212> DNA

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<223> Clone ID: LIB3067-049-Q1-K1-F9

<400> 30523

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 gcactcttga ggcattcaag aaaaatgacc catcagaaaa tacatgggac aaaagaaaag 180  
 gagatggagg tgatggtgcg tgggggaaca ggtctgatga tggccatggc aattgggagc 240  
 atcccagcaa ttggaatggg cagagtttgg atgtagatca ggacacatgg ggaaacgcca 300  
 ggggaaaaaa gaaggcagat ggtaactact gtcaatggga ggagcagcca agcaattaca 360  
 aacagaagaa gacaaatgct gatcatgatt cctcctataa caatgtgatg ccgtcatcag 420  
 aaattgcttg gaatgctgga gagggaaactg gaa 453

<210> 30524

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G1

<400> 30524

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 atcgttaacg cagaacttgt ggacttcttc tttgtcgaca ccactccgtt ccaactggag 180  
 tattggactc acccgggcaa gcatcggtat gactggagag ggggtggcgcc tcgaggcaag 240  
 tacattgcca atttgctgaa ggatctggat gtggctatga aggaaatcaa cttgcagggtg 300  
 gaagattgtg gttgggcaat acaccatgag gagtgttaat gagcacgggg accccgagga 360  
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<210> 30525

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G11

<400> 30525

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agcaatgcag atctctcttt ttgtcgaagt gatctccagc ttattttccaa cacatattta 180  
 ttaagtcac tttgactgaa tgccttttgg tatttttttc aagacaatac atgccaccat 240  
 tttttctttg aataattgga tctataccat taaaagattg caactttaga tatatactat 300  
 tggctccaca tatcattgac tcatgtgaac catacatgta agtgagataa caatgatata 360  
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<210> 30526  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G12

<400> 30526

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 agggcctccg ggagctcaca aagctacgcg tgctcaacct cagctacaac aggatttcgc 180  
 ggattgggca tgggtctgtc aactgcacgg ccatccggga gctgtacctg gggggcaaca 240  
 agatcagcga cgtggagggt ctgcaccggc tgctgaagct ggcggtgctg gacctgagct 300  
 tcaacaagat tacgaaggcc aaggcgtctg ggcagctggg ggccaactac cactccctcc 360  
 tggcgtcaa cctcgtaggc aaccggtgc aggccaacat cggcgacgac gccctgcgcc 420  
 gggcggtcac gggcc 435

<210> 30527  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G2

<400> 30527

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 agctgacatt cctgtgacgt ggtgccgacg tcgtgggttat gttatattgt tatgtttctt 180  
 cctcttgggtg tgacgcaggg aaccgcgcct ccggccggac gccgctggac tgggagacgc 240

ggtcggcggt cgcgctggcg gcggctcgcg gcggtggcgca catccactcc acggggccca 300  
 cggcgtcgca cggcaacatc aagtcctcca acgtccttct caccaagaac tacgaagcgc 360  
 gcgtgtcgga ccacggcctc cccacgctcg tgggcccctc cttctcgccc accaggggtgt 420  
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<210> 30528

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G3

<400> 30528

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 cggcatcaag aagcccaagc gccaccgcca gacctccacc aaggggatgg acccgaagtt 180  
 tctgaggaac ttgaggtact caaggaaggg caacaagaag agtggcgagg ctgagtccga 240  
 ggagtaagat gatggtgatt gagtttgtgg cgacaaatgc atctctggta tcgctaaaag 300  
 tcttagctgt gaaactagtt ctcacttctg tgtgactgtg atcaaaggac ttgtgtatga 360  
 tcaaaggaga tccatcagtt ggtaccgaaa gtgattttat gtcttggtgg ttacctggaa 420  
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<210> 30529

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G4

<400> 30529

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 atcgttgtcc taccactcta ggtctatccc ttgatctagg tttctatggt ctttaagattt 180  
 gtgattttct ccgcactggt gttgctatcc ccgtgtcgta ataatacgag atgttttaag 240  
 cggttgaaca ttacgggtgg gtaatcagag taatctgttg ctgttaaggt gcattgttgt 300

atgaattgtc tctacccgag tagaagaatc agaccattcg ggattc

346

<210> 30530

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G5

<400> 30530

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acatccggat aatgggtggat gcatcggttct ttctgttcgt cgtaagcagt tctttgtatc 120

aagtgagatg gcagtgacga ctccgtaaaa ttcaagctca acagaccaa tcacaggtct 180

ctctctacat gagatcgatc tgtatgccga ttttcccgct gaactgagcc atctaatttt 240

tctctgctta tttgctattc ggaatatattt ctctctacat gaaattcccg gttgcttttt 300

tttcc 305

<210> 30531

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G6

<400> 30531

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ggggccatgg acgccagcgc agccggagcc ggccgggaagg cgaagaaggg cgccggccggg 120

cgcaaggccg gcgggcccag gaagaagtcg gtgacgaggt ccgtcaaggc cgggctgcag 180

ttccccgtcg gccgcacgg gcggtacctg aagaagggcc ggtacgcgca gcgcgtcggc 240

acgggcgccc ccgtctacct ggccgccgtc ctcgagtacc tggccgccga ggtgctggag 300

ctggccggca acgcggccaa ggacaacaag aagaccgcga tcatcccgcg ccacgtgctc 360

ctggccatcc gcaacgacga ggagctcggc aagctgctgt ccggcgtcac catcggccac 420

ggcggcgctc ttcccaacat c 441

<210> 30532

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G7

<400> 30532

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gggaagaccc tatttgtgcg aatgggtggta aatggaccat cagctgtgga agaggaaaat 120  
ctgatacatt ttggctgcac actctgctgg ctatgattgg tgaacaattc gactatgggtg 180  
atgaaatttg tggcgcagtt gtcagtgtgc gtgggaagca ggaaagaatt gctattttgga 240  
caaaaaatgc tgccaatgaa gccgctcagg taagcatcgg gaagcagtgg aaggaacttc 300  
tggaactaaa ggactccatt ggattcattg ttcattgacga tgcaaagaag atggacaaag 360  
gcctgaagaa ccgttacacg gtttgatcct gatgctggaa tcccagagag ttgtagcagt 420  
agctggccca aatgcatgct ggggtggtttt a 451

<210> 30533

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G8

<400> 30533

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gcagtgggtg accgcagagt tcttgccttct tcctcttgga ggaggagggc tgcagcctgc 120  
agggggccgga gagagcagga ggaggcggag acatgggtag cttcgctaag ctggcgagga 180  
gggcgggtgga gacggacgct ccggtcatgg tgaagataca agaactgctc cgagggggcca 240  
aggatgtgat gtcgcttgcg cagggagttg ttactggca acctcccag tcagctatgg 300  
ataagatcga aaagatcatc agggaaacaa tagtcagtaa atatggttct gatgatgggc 360  
ttcctgagct tcgagaagca cttctcgaaa agc 393

<210> 30534

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-G9

<400> 30534

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gtcctaacgg ttgatgtgtg tgtattctgt attctgtatc ccggattccc gatgcttggt 120  
ctgtgatgta ataaatcctg gaattcaaca gttgttactt ctgatct 167

<210> 30535

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 30535

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gtgccctgac accggcagcg acacgtccac cggcgggcgcc atgggtgctcg aggcaacgat 120  
gatctgcata gacaattcgg aatggatgcg gaacggcgac tacgctccgt cgcggttcca 180  
ggcgcaggcc gatgccgtca acctcatctg cggcgccaag acccagtcaa acccgagaaa 240  
cacggtaggc gtgatgacaa tggccgggaa ggggtgttcgc gtgcttgta ctcccaccag 300  
cgacctcggg aagattctcg cctgtatgca cgaagttggc gctgaggcaa acttggtctg 360  
ggcaatccag gttgccagc ttgctctaaa gcatcgccag aacaagaggc agcagcagag 420  
gattatagct ntcattggaa gtcctgtgaa g 451

<210> 30536

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F4

<400> 30536

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gcatgagaga ttctagggga cctgtaatat atattcaagc tagggataat cctggatctg 120  
tcttcgtgcg atgggttgac atgttcattc agttctcaaa gttctttag tagtactgatt 180  
gtctgttgat ctattctgaa tgtgatgata gtacttcgct gcctc 225

<210> 30537  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-E10

<400> 30537

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acacattcag atcccaactg ccttcgaccc ctctcgctgac gccaatgctg gagacaatgg 180  
tgcacgatca gactccaagg actacatcta cgtgcgcatac cagcactgta atggccataa 240  
gagcctgacc accgctcatg gatagcagaa tgatttcagc tacaacttga tcctcaaaga 300  
tatcatgata gagcactgct gtaatggcac actgctccat gaccagaac tagtacaggt 360  
cattcagctc cactgtgatc agaggaacga actctccaat ctactagcac aggccgtcat 420  
tgtgcagaac gatcacat 438

<210> 30538  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-E11

<400> 30538

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caagcagctc gtcgccaccg gcaagcccga gagcttcggc gggcccttcc tcgtgccag 180  
ctaccgtggc tctccttcc tcgaccccaa gggccgcgcc ggctccaccg gctacgacaa 240  
cgccgtcgcg ctccccgccg ggggcagagg tgacgaggag gagctccaga aggagaacat 300  
caagaacgcc gtcttctcca ccggcaacat cacgttgagc gtcaccaaga gcaaccggga 360  
gaccggcgag gtcacggcg tcttcgagag cgtgcagccg tccgacaccg acctcggggc 420  
caaggcgccc aaggatgtca agat 444

<210> 30539  
<211> 447



<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-049-Q1-K1-E12  
  
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 ctagtctaca ccgtcttctc ggccaccgat gccaagagga atgccaggga ctcccatgtt 180  
 cctatccttg cccactgcc aattgggttc gcggtgttcc tgggtccacct tgccaccatc 240  
 cccattactg gcaactggcat caaccagct aggagccttg gcgctgccat catctacaac 300  
 agggatcacg cctggaacga ccattggatc ttctgggtcg gccccttcat tggcgctgcc 360  
 ctggctgcca tctaccacca ggtgatcatc agagccatcc cgttcaagag caggtcttaa 420  
 gctgccgtgg ccgtgccgag acatgcc 447

<210> 30540  
 <211> 281  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-049-Q1-K1-E2  
  
 <400> 30540  
  
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 tgtgcaacct acataccata ctatggacat gaaccagcag ccagagccag cgccgggctg 120  
 ctgctaccct cctgcgtgga tggcttagcc agcgctttgg ttccattgcc ttgagaagtg 180  
 ccgtgtcctt cagagatcgc tacgagtgtt gttgcctgcc cactttgctg cctgccatgc 240  
 ttaccgaact gttcaaataa gaaataacca catgggtccta t 281

<210> 30541  
 <211> 283  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-049-Q1-K1-E3  
  
 <400> 30541  
  
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aaaaaaagaa caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaatccac 120  
 caaaaaaaaaa aaaaccaaca caaaaatcac caaaatacaa caaaaataca acaataatca 180  
 aaccaaaaaa aataaaaaaaaa aaacgtaaaa attaaacaaa cttaacaaga agaaaacccc 240  
 tgaataaacc ccaaaatata ccccatgcaa cataaaataa aaa 283

<210> 30542  
 <211> 249  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-049-Q1-K1-E4  
 <400> 30542

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 agcggatcgt gacggtcgcc gtggttctcc cggcagtagc ttctcttcac caccgacatg 120  
 ctcatgctct gggccctggt ggcaccaac gcgcgccagt tccggcactg gctcgaggac 180  
 gacacggcct acgccgcata caagtctgca caagaagcat ctgcaaagaa actcgactcg 240  
 acgtgcccc 249

<210> 30543  
 <211> 310  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-049-Q1-K1-E5  
 <400> 30543

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 gagctgtcct tacctgagag aagagaactc gaagtgacat aactgacca tgtcatgatc 120  
 cccactctac gatctcggaa aggctacctc ctgccaatac acaggccaca cacactgacg 180  
 cacgaaacta cttggctctc gcaatctcga tcactactgc cgacaccatc tggatcacgt 240  
 cctcggcacc aatgtcgtcc caccttatac gtatcgctgc tgctcacatg agccggctat 300  
 tctgaccgat 310

<210> 30544  
 <211> 454

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 30544  
  
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 ggtcacaatg cctgcctctg ccaagcccgc ctcccgacc gccaaagccg ccgcgggtcc 120  
 gaagccgaag cctgcgcgccc ccaagccgaa ggcgggccacc gctgggtgctt cccacccgcc 180  
 ttacttcgag atgatcaagg aggctatcac ggcgctcaag gagaggaccg gctccagctc 240  
 gcaagcgatc gccaaagtatg tgggggacaa gcaaggcgcg tctctgccgg ccaacttcaa 300  
 gaagatgctt tccatccagc tccgtgggtc cgcagccaaa ggcaagctcg tgaagggtcaa 360  
 ggcttcgtac aagctctcgg acgccgncaa gaaggcatcc cccaagacca aggctaagcc 420  
 ggcaaaggcc gncgctgcc aagaccaccgn cccc 454

<210> 30545  
 <211> 212  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-049-Q1-K1-E7  
  
 <400> 30545  
  
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 aatgaaaatt tttcactaac ttaaaaacac aaacatacaa aaaacaaaaa tctaaaataa 120  
 tttaacctaa tttaaattcta cttccctcat ctttacaact tcctatactg ttaaaaccca 180  
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<210> 30546  
 <211> 299  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-049-Q1-K1-E8  
  
 <400> 30546  
  
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ttaactaaaa gacgtaaaat tatactagta cgaagagaaa ctcaacaaaa aaaaaaaact 120  
 aaaaaaaaaa aaaaaatgga cgcacaatct aaagaatcca aacttaccaa cacatacatg 180  
 atacaacata tctcttctat aaaatcacct aaattcaata cactatccat cacaagacaa 240  
 caacttgact agtaaaaccc tagcattacc aaacttaatc aacttacaaa acatcccccc 299

<210> 30547

<211> 450

<212> DNA

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<223> Clone ID: LIB3067-049-Q1-K1-E9

<400> 30547

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 ccctcgatatt ggcgtccccg tctctgctag cgccccctaaa agaggagcga agcgatgtct 180  
 atgccggaga cgggtcaggg cgccggagagg gatgagcagc agcagtcctc agggatagca 240  
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 aagcagggtc tctacttggg atctgttga gcagcattca ataaggacgc tctcaagagc 360  
 ttgaacatca cccatatctt gatcgttgca aagtcactgg atccagtatt tccagctgaa 420  
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<210> 30548

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F1

<400> 30548

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 agagatggca gggttcgttt acaatccgtt gagtggagaa tggtcctgt cagatgatat 180  
 cagtgtgaac tacattgctt ttggcgtaaa gaagggtgaa gcatcatcga caaatggcag 240  
 agatgcaagt ttatcatagc tgaagaaaaa cacgtgacct tgaattgtcg ggcatcattt 300

tcagaggacc aattcatgtc actgaaatct tactgctaaa gatgcaacca agtagcagaa 360  
gagaattctc ttgccctttg ttagtcttgg aaactggagc ttgtggagtg atgcttcctg 420  
gaagcgccat tgagaagtca agttgac 447

<210> 30549

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F10

<400> 30549

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aaattgtgta atgatttgtt atatcgttta atgcagcccc ttgtcaacgt cagccttgc 300  
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ggttggtcgc cttgaatgat tcgtgattgt tttatttacg tattttggtc gatgatgtgc 420  
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<210> 30550

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F11

<400> 30550

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cattgtgcaa cgccctgtgg ttgtgaatgg tgacatcctt gcgaggccaa tgatgtacct 180  
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catcaaggat gttgtcgagg accccaggag gttgctgctt gacatataaa ttcatgcacc 300  
agcgctgcgc tgccctgccg gactgttttg tgcaattgtg cttatctgga aataatgcca 360

tggaattttt tgactgatga aaaagaatta ctttctcaga aagacgaaat ctgagctgag 420  
gata 424

<210> 30551  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F12

<400> 30551

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cgctagctag tgattttgat ttgtacaagc cagatatatt gtgcactaga atcatggcaa 180  
ccgaggtcct atggagctcg gatggcacat gtggaatgct aatcggctgg aagatatagg 240  
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<210> 30552  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F2

<400> 30552

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tcgtcgtaa ttgaattcag aatagaaaga ttcagaataa acaaaattta taggattcaa 180  
ataatcaa ataaagtaaagg taggcgggta ataaccttat ttatgacaag tttcaaattg 240  
gtaaagtata cccttaggat aaagaagaag aaggggctga gaaaactcgc aagaaaagtt 300  
ccaaccgatc gtctacttaa attcgaacgg gttttcaaag cacaaaaacg catacatatg 360  
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gttatgatac tgaatctcat gccttatcga gcatc 455

<210> 30553  
<211> 357  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-F3

<400> 30553

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tacgacaaga acctggagga ccacatgcgc ccggcggttcg tgcctgacga tgtgatcggc 180

agtgccagga gcccggaaca gtactggagc cccaccccca tgaccggcct gatctgcccc 240

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<210> 30554

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<212> DNA

<213> Zea mays

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<400> 30554

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caggcgcagc caggcctgca cccaaagctt ccggagaatt cctcccttgc cccgccgtcg 180

catcctcttc gaagttcgaa tcgaatcgcg ccgcgatcac ccacctcatg gcggacaagg 240

agcctgtcgt ggagcggcca gaggcgggtg aggaggagga ggacgcctca gccgccgccg 300

ccgcggggga ggaggaggac acgggcgccc aggtggctcc catcgtgcgg cttgaggagg 360

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 acaacacact tttatttcct atttttgttg ccatgatcaa gcatttgaat tgcacattgc 240  
 agtgccttta tgctgatgga gaaaatagtt tacatctacg ttggtaacca aggcgagagg 300  
 gaaactagag atttagttgc tatgatgata ttcatgactt gttctagaat aagcagttct 360  
 ttgggctcta cacaacttat ttgggtggagt gaatggatgt tgccatcagg gccaatacca 420  
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<210> 30556  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gtggcgttcg agctgtcgga gcggctgccg cacctgccgc tgcggatgca ggagcactcg 180  
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 tgcggcggca tgctgtgcct cgacatgggc accgaggagc gcgccaaccg tctcatgcac 360  
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<210> 30557  
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 <223> Clone ID: LIB3067-049-Q1-K1-C3  
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 gcacctacgg caacatttta cacattttga gtgagaatca tgggaagatc catggatcgt 240  
 ctattatgat gtacgttgcc tgcttaataa tgggaccaat ttcttctgct gagtttgcta 300  
 aaggagcaca agaattttct gaatgcccac catggtagaa aggttgagat cttggttggg 360  
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 <400> 30558

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 tgaggcttct tacttcagat ggcaacacta aggatgatct tagactccca actgatgaga 180  
 ctcttggtggc ccagattaag gaaggggttcg aaagcgggaa ggatcttggt gtgactgtcc 240  
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 cttggctttg gagacggaac cctactgtat ctcaacttaa atcggaaaag aagtgtatca 360  
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<210> 30559  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-049-Q1-K1-C8  
 <400> 30559

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ctgactgcga gaccacagca ccggaggacg cccgcgcgcg cgaaccgcag cgcagaggca 180  
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<210> 30560

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C9

<400> 30560

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 ctctgtttac cgggacccgg aggaaggcag gaaggaagga aggaaggaag gcggtgatgg 180  
 cggaggagac ggtgcgggag ctgcgcgcga gcttcgcggc ggggcagacg cggccggccg 240  
 agtggcgggc ggccgcagctc aaggggctca tccggatgat cgacgagaag gaagccgaga 300  
 tcagcgccgc gctccacgag gacctcgcca agccgcatat ggagtccttc ctccacgaga 360  
 tatcaattac aaagtcgtcg tgcaagtttg cgtcaaggg gctcaagaac tggatgaagc 420  
 ccgagaaggt acctgcggcc ataactacat tcccg 456

<210> 30561

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D1

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 tgaacttgta acagatgtgc ttttgggagc agtttgcaca tctgttgatg tgcacctatg 180

ttgtaagcac attgtatgtg ttaatttggga actttggatg tttaatgtgg tgaaaaaaaa 240  
 aaaaaaaaaa aaaaaaaaaa aaaaataaat aaaaaatata ttaatat 287

<210> 30562  
 <211> 468  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gttgacatta tcccgccga tcatctgaca tcgccacaat tgtctccaaa gaaaaatcag 180  
 aacaagttga agtcactttt tcgtagaagg tcgcatagtt cagttagaaa gcttggaggc 240  
 aagtctgcct ccattggttc cgtggaggag ttatttgaag aagggtctgc aatgctagaa 300  
 gaaagcttat ttccagcttc ttcacaaatt taagcagaag ttctgccaaa cagccagctt 360  
 ctacagcagc ttattagttc agctgcttct cagaatacac taaaagcagc caacaagcag 420  
 aagctgcctt tcaccagctt ctgagataag ctgctttntc aacaagca 468

<210> 30563  
 <211> 448  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 30563

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 cctttttctg cgaggaaacc taactcgttt ctctctctac gacatctgca ggctacgggg 180  
 catgcgtgta caccggggga ggccaataat gcacggcgca cggcgggtgcc aaccccgtag 240  
 cacatgatta gttttgcgag taccacgcac gcacgatggt ctggattgcc gagtgaataa 300  
 ggttgtgcgt gcctacaggc tacagcaagg gaagggctct gggcggaccg aataattgcg 360

gttggtgccg tggttggcgt gttgtagcgt agtgcagtgc agtgcagtgc agtgcagatc 420  
 ctctngtttg gttcgtcgta ccggaaga 448

<210> 30564  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<400> 30564

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 cgcaaggcaa gcggccccag gaagaaatcg gtgacgcggt ccgtcaaagc cgggctgcag 180  
 ttccccgtcg gccggatcgg gcgctacctt aagaagggcc ggtacgcgca gcgctggggc 240  
 actggcgccc ccgtctacct cgccgncgtt ctggagtacc tcgccgccga agttctggag 300  
 ttggcagggg acgcggcgaa agacaacaag aagacgcgca tcatccccgc ccacgtgctc 360  
 ctggcgatcc gcaacgacga ggagctcggg aagctgctgg ccggcgtcac catcgcgcac 420  
 ggtggcgctc tccccaat ccactccgtg ctcc 454

<210> 30565  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-049-Q1-K1-D3

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 acctgatccc ctccccacgt ctgcacttct tcatggttgg atttgctcca ctgaccttgc 180  
 ggggctccca gcagtaccgc gctctcaccg tgccagagct gaccagcag atgtgggact 240  
 ccaagaacat gatgtgtgct gctgaccctc gtcattggcc gtacctcac gcactctgcta 300  
 tgttccgcgg gaaagattaa caccaaggaa gtggatgaac agatgcttga cgtgcagaac 360

aagaactctt cctacttcgt agagtggatc occaacaacg tgaagtcgag tgtgtgtgac 420  
attccaccaa ttggcctgaa gatgtcctnc acattc 456

<210> 30566  
<211> 178  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D4

<400> 30566

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cgactttgtt tgtgctgtgt catctatcta tctaactaat ccatctatgc tatcctct 178

<210> 30567  
<211> 451  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D5

<400> 30567

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ggtcctgctg gagatcctga catccaagct acccgtggac gacgtgttcg gcgagggcgt 180  
ggacctcgtc aagtgggtgc acaccgcacc agcaaggggt gagacgccag agcagatcat 240  
ggacccccgg ctgagcaccg tgtcgttcgc gtggcgccagg cagatgctcg ccgtgctcaa 300  
ggtcgcgatg ctgtgcacgg agcgcgcccc ggccaagcga cccaggatga ggaaggtggt 360  
ggagatgctg caagaggcca agaacagctg agttgatgtg tttctctgct gaatcctgaa 420  
tgctgcgggt gcctgcttgg aagtcgagcc g 451

<210> 30568  
<211> 449  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-049-Q1-K1-D6

<400> 30568

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actagcctta tattctacac aatcatcacag aatgggtgct acaaaatggg aggcagctga 180  
taacactgaa aaggaacaaa atctcaaacg aaagtaatct acagcaataa aactgctac 240  
tggcagttgc tccgttttctg tgaaactcaa gcaaagattc tcgcaggctg aacactgacc 300  
caatcaaatt gggcagtctg attatgtggc aaagctttct gtcgccagca ttccccagtc 360  
ctggaactaa taaaactttc tcatttactt ctggatcaat cattcctgtg tacacgtgga 420  
gcccaaggaa ctntgtattg aacttttgc 449

<210> 30569

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-D8

<400> 30569

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tcttcagctt tttctcttga cggcgctagg cgtggatgga gcggcgctcgt tcattcttcac 180  
caacgcctgc aagcacgcgg tgtgggtggg cgcgctccac ggccgccagct cgccgccgct 240  
cgcgcggctg ggcttctacc tggcgccgtc cgccacgtcc agcatggacg cgccgtcgtc 300  
ggggacatgg tccggcacgt tgtgggcgcg cacgggctgc gtggccgacc ccgccaccgg 360  
gcgcttctcc tgcgccacgg ccgactgcgg cacgggcgac gtcgcgtgcc agggccgcgg 420  
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<210> 30570

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-C10

<400> 30570

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ccgcttatga agccatacag cactctatgg acctgtatgc tacatacatc gttgagggcc 180  
tgaggaggta ggattctgat ggctaggaaa ggtgggtgagg atgttgacga aaaactggga 240  
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gtagtgaacc ctcaatcaaa gaccgaaatc ccctgaggag tcggagtcgg tagtaggtga 360  
agctagtaac aaggttggcg aaatattatt ttctggcctg actgcctata tatgttgtag 420  
gtgattggta tcgtaatatt cattcgct 448

<210> 30571

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A6

<400> 30571

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accaaccatg cttcctgaat cggcagttga ttactcttct ctcaacactt ggggttagcg 180  
ataatgtctt tgagctaaag cagaaggaag ccttaaggca gttgaacaga atggtaactg 240  
aaccacaggc tgctcgtgaa gcagttgaac ttatgcccat gggagaagta accaatgtag 300  
ttaaagaatt gttgtcatgt ggctaccagc ctgatcatga gccatatctt tccatgctgc 360  
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<210> 30572

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A7

<400> 30572

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 ttactacaga tgaaatcagt tattcaacct gctgcgatgc aaatttggca gtggatgaac 180  
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 aagaagcaat agccgccgat cacgtgaaac ttgttgtgtc ctgaaaacta aaggaatggc 300  
 agaataaaga aattctgttg agggcaacag catggaagct ccggccgact tgtcgccgga 360  
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<210> 30573  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A9

<400> 30573

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 gtaaagattc agcgaatgtt actttgtcaa agcatgtata atcaatcata ctactaacta 360  
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 gttcct 426

<210> 30574  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B1

<400> 30574

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gttactacag atgaaatcag ttattcaacc tgctgcatg cagatttggc agtggatgaa 180  
catttacaat gcaccacgtt ttccagtga gaagcgacag cctttctttc tcaaagatgg 240  
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<210> 30575  
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<212> DNA  
<213> Zea mays  
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<400> 30575

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caggaccggc tccaggggtc aggtgaccca ggtcagagtg aagttcttgg atgaccagaa 180  
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<210> 30576  
<211> 452  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-049-Q1-K1-B2  
<400> 30576

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gggtgtacgc gaccgacgat gcgaggagct acgccatctc taaagcggaa gatctggagc 360  
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<210> 30577  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-049-Q1-K1-B3  
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ggacggttcc acggccctca cagccacagc accagcacga ccccgacggg cggcgcgggcg 180  
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<210> 30578  
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<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-049-Q1-K1-B4  
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<210> 30579

<211> 454  
 <212> DNA  
 <213> Zea mays  
  
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<210> 30581  
 <211> 456  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-049-Q1-K1-B7

<400> 30581

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accaagagct gtacaagaac gagcagtacc gcatgaagct gcacaaatcg aacgagcggc 300

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ccccgaagaa ggtgaccccc cgcgtcacgg gcgcgtttgg cttcgccagc tccctcatcg 420

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<210> 30582

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B8

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tttgccggga gacagtacag tttcttgatg gatcaagatg ccctacgtca acaagaagga 300

gaaggagcac gaactgagca gaaggaagcg ctagtgccac tggtgcaagc tcggcggctc 360

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<210> 30583

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<212> DNA

<213> Zea mays

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<400> 30583

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 ggttgatcta ctgagagctc atgttatcaa tctccatcat tatctgatgt tgttttagctt 240  
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 aggcataaca caggatatga catatgctgc tgttcaagct tacacagatg catataagcc 360  
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 agaagaagct ggacatgatc agggaggacg acctgagcag cctgccgtac ctaaaggcgt 180  
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 ccgccgactg ccagatcgac ggggtaccaca tccccgcaa cacgcgcgtt ctctgtaacg 300  
 gctgggcatc cggcagagac ccggcggtct gggagaagcc cgaggagtgc atgccggaga 360  
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 tgggtgtgctg taaacttcag ctctgagaac ataccaaagt gtattggatt tggagggcag 240  
 ccacatcatt tcggactctt tttatcagca aattttgacc aagggcactc atttacgtgt 300  
 agcacattta ccagccctcc cctttccaag acaaataagg tcaggccaga agttattgaa 360  
 tgttggggta tacaagttag aggagcaca gatgaaaaac tggagttagt caaggggaca 420  
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<210> 30586  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-048-Q1-K1-G7  
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 ccagggcccg tacaacggga tcgggcagtg cacggcgggc tcgaacgtgt gcgacaaccg 180  
 cgacgtgttc gcgttctggg acgcgttcca cccacggag agggcaaacc gcatcatcgt 240  
 cgcccagttc atgcacggcg acaccgacta catgcacccc atgaacctca gcaccatcct 300  
 cgccatggac caggagggcc tctagactat agctcgatca gccggacacg attatacgta 360  
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 atttgccaat aatattcgtg cct 443

<210> 30587  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 <400> 30587

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cgtctccctc tctcaccgcc gcatcatcgc ggccgctcgcg accaaggaac cagagctcgg 180  
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 gggaggaggg caggaaggag actgggagga agagaagatg gggcagggcc tgtccatgtc 300  
 gcagaaactc accctcgcct acgcgcgcgt cgtcggagct ggtggtgtaa tgggatatat 360  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H1

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 catgactcct tacatcaacc tttaaccacta tgatcacct cttgcgctag ataagaaata 180  
 tgcacggatt gtaacacat aaatcgctga cttgttaaca gactatcctg acttctaaac 240  
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<223> Clone ID: LIB3067-048-Q1-K1-H11

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<210> 30590  
 <211> 452

<212> DNA  
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 <223> Clone ID: LIB3067-048-Q1-K1-H12  
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 aagctcaaga cccacagaag gaaccagagg tgggctgaca aagcctacaa gaagagccat 180  
 ctcggaacg agtgaagaa accatttgct gggctcatctc acgcaaaggg aatcgtcctt 240  
 gagaagatcg gcattgaggc taagcagcct aactctgcta tccgtaagtg cgctcgtgtc 300  
 cagctgggtga agaacgggaa gaagattgct gcctttgtgc caaacgatgg ttgcttgaac 360  
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 ggagatattc ccggcgccg tttcaaggtc gt 452

<210> 30591  
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 <223> Clone ID: LIB3067-048-Q1-K1-H2  
 <400> 30591

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 gccaaagcca atgaacaagg caagctggca gtcatcgact tcaaggcccc c 171

<210> 30592  
 <211> 108  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-048-Q1-K1-H3  
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 tctgggtgta atctaacc aa gagttgtgta acatgatcaa aactatct 108



<210> 30593  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H4

<400> 30593

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 caccggggcc agagcaggtc acgcccacac acgacgcacc accggcggtg ccaaactctt 120  
 aggactgcat cgccacacca cgcacgcccc gtctggcgcc cgacaccgcg atgct 175

<210> 30594  
 <211> 387  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H6

<400> 30594

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 ctacaatatc cagaaggaga gcaccctcca cctgggtgctc cgtcttcgcg gtgggttatta 180  
 agccatcagt cgttgaagct gctgctgtat ctgggttata tagtgtctct gccattgccc 240  
 atggatgggtg ctgtctttca aagtatttgt atggtttgtg tcgtgagtcg tgactgagct 300  
 ggtttcatgg accagttgtg ttctcggtac ccaaaactat cgtgcgaccg catatggctt 360  
 aatcatgaaa taatgttggt tgaattt 387

<210> 30595  
 <211> 263  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H7

<400> 30595

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 atgtacatct ctctacatgc tcgttcatca atacaacttc attatctact accataatta 180

cattgatata ctataatcat atatcatata atatatatct actaaaacat gaattactat 240  
tattaaaata cacaataaca tat 263

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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-048-Q1-K1-H8  
  
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<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-048-Q1-K1-H9  
  
<400> 30597

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aaaaagccgg cggcgaagaa gcccgcgagg gaggagcccc cgaccgagaa ggcggagaag 180  
gctccggcag ggaagaagcc gaaggcggag aaacgcctcc ccgcgggcaa gtccggtgcc 240  
ggcgagggca agaagggcaa gaagaaagcc aagaagagcg tggagacctt caagatctac 300  
atcttcaagg tgctcaagca ggtgcacccc gacatcggca tctcgtccaa ggccatgtcc 360  
atcatgaatt ccttcatcaa cgacatcttc gagaagctcg ccgcggaggc cgccaagctc 420  
gcccgtaca acaagaagcc caccatcacc tc 452

<210> 30598  
<211> 443  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-049-Q1-K1-A10  
  
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 tggcagttta gatgcattta ggtgatgaag aagattgggt tattttctcac gtgtgtatct 240  
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 caagtcctta ttggtggtta caagccatgg tggcttatgt gtatgcatgg gttgattagc 360  
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<210> 30599  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 ccgcgcgtgc ctcgtcagg tgctctacgc catcggcgtg ccggagcccc tgtccgtggt 180  
 cgtcgactcc tacggcaccg ggaccatccc cgacaaggag atcctaaaga tcgtcaagga 240  
 gaacttcgac ttcaggccag ggatggtcac catcaacctc gacctcaaga agggcggcaa 300  
 caggttcac cagaccgcg catacggcca ctttggccgt gacgacgccg acttcacctg 360  
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<210> 30600  
 <211> 455  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-049-Q1-K1-A2  
  
 <400> 30600

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 caccggcatc aaccgggcca ggagccctgg gcgcgcgcgt catctacaac aaggacaagc 240  
 cctgggacga ccaactggatc ttctgggtgg gcccctcgt gggccctggc atcggggcct 300  
 tctaccacca ggtcatcctc cgggctggcg ccatcaaagc cctcggtccc ttcaagagca 360  
 acgcgtgatg agcggggctt ggctgtggag caatggcggg cgacctacgg gcggggggcc 420  
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<210> 30601  
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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gaaggaaggc cactggtttc gggcttatct accacaacct tgaagctggc aagaagttcg 360  
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<210> 30602  
 <211> 408  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-048-Q1-K1-E9  
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tgtgcctgct gttcctcatc cgcctcctct cgtccgaccg cggcgcgcgcg gcgctcgccg 300  
acgccttcgc cttcggcgggg tcccccgacg ccgtccaccg cgtgggaggg tccccggtcg 360  
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<210> 30603

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F1

<400> 30603

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ccagattgtc catactctct ccttcatttt caactaagaa aacctgctta ttccatataa 180  
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<210> 30604

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F11

<400> 30604

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ccattggtcg ctacgacgac atgtgggccg gatggtgtgt gaagggtgtgt ggtctcgctg 180  
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gattttacaa ctgaaacaaa ataacttagg tcactctgca ccacttgagc ctgggagtca 300  
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ga 62

<210> 30606  
<211> 433  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-048-Q1-K1-F4  
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<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F5

<400> 30607

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gctgctgttg ttggtgttga gcatgagggtc aaagggtcaag gaatttatgc ttttgtaact 180  
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aaccagattg gggcatttgc agctcctgac aagatccact gggcaccggg acttcctaaa 300  
acccggagtg gcaagatcat gcgaaggatt ttgcgcaaga ttgctgcacg gcaactggat 360  
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<210> 30608

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F6

<400> 30608

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agatgctgtt aaagctgcat ataatcgcta catgacatat ctggagtcct ttggccctga 180  
ggaaaattat ctaagaaaga aggtggagac tgagttgggc acaaaaatga tacacctcaa 240  
aatgagatgc agtggcatag gttccgagtg gggaaagatc tccttgattg gcacctcggg 300  
gatctcaggc tcctatgttg agctaagggc atgatgtgaa gcctgcagat cagaacctatg 360  
gaaattatcg atgagctgag gaagtctgta gatcagaata tgccgttcta cattttcctt 420  
tcccccttgt agctaccatg gcaat 445

<210> 30609

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-F7

<400> 30609

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<210> 30610  
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<213> Zea mays  
<223> Clone ID: LIB3067-048-Q1-K1-F9  
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cgagagtcca gaggacgacc acgactaagc gtataaatat aattaatagc cacgtctaaa 360  
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c 421

<210> 30611  
<211> 390  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-048-Q1-K1-G1  
<400> 30611

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tgtccaagtt ctataattca ttaggaagaa agaaaacctg catcttccag ctgtatttgc 180  
tgctcgtatt gcagcacaat caaacgtaa tctgagacgt gtgatactgt tttttcagac 240



ttgcaaagtg caacagtaat ctgagacgat gaggacttga acttgggtgg tttgggtata 300  
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 ttcattctaga aggcactgct tccaggtcgg 390

<210> 30612  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-048-Q1-K1-G10  
 <400> 30612

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 atcaatagac cgtgactgcc ttagtgggtg ggggtggctat gttctgattg tgacaccgac 360

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<213> Zea mays  
  
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atcatcttca cttttaaaact cttaactata cctctaacaa cataccaaat tacattatat 240  
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catcgtggcc agcgggctcg cccgccgctg cctcgagcag gagtctacg ccatctgct 180  
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cgacctcaag aagggcgcca acaggttcat caagaccgcc gcatacggcc actttggccg 360  
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gcggtaccgc atcagccccg tgtcctacct cctggtggac ggcacccctc acgaggacca 360  
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agggcttgcg gaat 434

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<212> DNA  
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gcctctgaag catcacgagt tctcctcgcc ttcacgcca cagagtttca acatctctct 360  
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<223> Clone ID: LIB3067-048-Q1-K1-D10

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caaaaggacc ctccaacgtc atgcagtgcg ggtcctgctg gtgaggatat gttccactgg 180  
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<400> 30623

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gcaagaagca cccagcagtc aaaaccaaga tgtacttaga gtagaacaag atggaaagac 360

ggaacctcac gacgccgttg ctgaaacctt tgctcagaag ctgagcatgt agtgtgcttg 420

ttacacccat gatgggtaca ttgagac 447

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<213> Zea mays

<223> unsure at all n locations

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gtcacggcag ggaacagaga cgagcaggtc ggcgctctcc cccagctca ttgatcctgt 240

cctcgctata aggtagtctt gcggtggcct ccgaatttca ctcgatcgaa cacgacatga 300

agcggccacg cggcgccagc cccctctgg ctgcgatgac caatccgaac gatgatggtt 360

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<223> Clone ID: LIB3067-048-Q1-K1-D7

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aaataaaaaa atcaaaaata aaagtggcgc gccgttttaa 160

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<211> 395  
<212> DNA  
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<223> Clone ID: LIB3067-048-Q1-K1-E1

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<223> unsure at all n locations  
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caccaccttc gcgctccagg tgccatccct gacgtctctg gcgcacacnc ttcgnctcgt 360  
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<223> Clone ID: LIB3067-048-Q1-K1-E11

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<223> Clone ID: LIB3067-048-Q1-K1-E12

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aatatcaggg cctaacttga gttactgcta caggccatag ttgatgggca attctggact 360  
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<223> Clone ID: LIB3067-048-Q1-K1-E3

<400> 30630

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<223> unsure at all n locations  
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<223> Clone ID: LIB3067-048-Q1-K1-C4

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tccgacgcca agatccccga caagggctgc ctgctccgc tcctctctaa gctgctcggc 180

tacgccatcg tgcgcgcatc caccaccgtg aagcttcccc agatactgaa aattttgaag 240

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attgctttgg catattgtat tcataaagga ctccctttt cagcttatgg ggagctagct 360

tttctgttaa tccaagcaat tattttgggt gcaatcattt actattactc accaccaatg 420

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<400> 30634

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaagagaga ataacatact aacatactca aaaaaaaaac aaatatacta ataaaaaaat 240

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<210> 30635

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B10

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attccttgag ctcaggtgcg agatcataag aggcgggatg aaggaatact tgacccccagt 180

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 tgtgctgggt ggggtttact ggtgaaccag agtttttcta tctcccacta tgaatttgtt 420  
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<223> Clone ID: LIB3067-048-Q1-K1-B3

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 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B4

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<210> 30640  
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<223> Clone ID: LIB3067-048-Q1-K1-B5

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<223> Clone ID: LIB3067-048-Q1-K1-B6

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gatgaaggag gtggaagtgt ggcttcagac aataagtcca ggtcaaagga cgccaatcca 360
caggcattcc tgtgaagaag ttttactgt cctcaaaggg aagggtacgc tcttgatggg 420
atcaagctca ctaaagtacc 440
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<223> Clone ID: LIB3067-048-Q1-K1-B7

<400> 30642

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tgagccacct acctgtccaa aatttgggtgt taaccccggt gccacacctt gtctccactg 180  
cataatcaaa caaggcctaa gtacaaccct taatcgagat cccaaaatct gccaggcct 240  
cgtactaaga gtgatcaaac aaccagggtga tttttcacia atttgaacta tgagatttta 300  
tctgcactga attgtttctg tttctccaac gccctgcagg ctgctttttt cgatctctta 360  
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<210> 30643

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B8

<400> 30643

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ccaacatggt gcaacttcac gccattgagg aagtctagga tttgctcacc ttggatgaag 180  
ctatagtgga agtcattgaa ccagcagagg aactgatgat ggttgatatcc ctgtctaattg 240  
cggcatggtc cggatctgac acgatatcaa ccatgagatt acagggtcag attcagcgac 300  
ataatctctt ggttcttatt gattcagggg cttcacatac tttcctcaat gacagtcgtc 360  
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<210> 30644

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-048-Q1-K1-B9

<400> 30644

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cgcgcagggc ctctcgcgcg tggacgcgga gaacgcgcgc ctccgcaccc aggccgcgga 180

gctcgcgcgcg cgctcgggt cctcaacga catctcgcgc tgcataaaca ccaacgcgcgt 240

cggcgcgcgc ggcgtctccc tcacagcgcg cgccgcgcgc gccgtcgctt cctccgaccc 300

ctgcctcgcgc ttcgacggcg ccacgcctct ggacgacctn ctgagatcct gccccgagaa 360

catgttccag taccagctct gctagctcca gaccgcgcga agtcaccatg gcagcgcaaa 420

acaccttctt ttcttttctt t 441

<210> 30645

<211> 166

<212> DNA

<213> Zea mays

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<400> 30645

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tgttgggttg gttgtgatta tacacgcggt tttttttgga gctagc 166

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<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-048-Q1-K1-C10

<400> 30646

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attcagtcac attcagtgga gcaacaagct tgtatccttt gagccactga aaattacatt 180

gcttcatttt ttatacaagt attatttggc atcattctcc ttaataaatg cagatatcac 240

tgcagcaatt ggattatggt tggaaaagct aacagaaaaa gaattagaaa caactaaaga 300

tgtattgaat tctattcttc aaggagtaag ctgtgagttc acccttgtac attagcttac 360  
 cagaatttga tatgagtaac gataacatct tcttgctgat ttgttnttgt cactctaggc 420  
 aggttagaga gccaattga tttattac 448

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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-048-Q1-K1-C11  
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 cggcagagca aagcgaaagc agcaagaagc aaagcaatgg agaaccctgc gagtgtgcta 180  
 gttctaccag cgcagttcac caaactcacc ttccgaaacc tgtacatccg ccgggccggg 240  
 ccgggcagca gggagataac cgaggagggc aggtgcgacc tggacaagag atacgtgagt 300  
 gacttccccg tctacgacgg ccgcgggccc gacgccagcc ttgtggcccc cgtgcagggg 360  
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<210> 30648  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-048-Q1-K1-C12  
 <400> 30648

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 ggtggcggtt cccgtccccg ctctaaacag cacagagggc gacgaaggag acagccctcc 180  
 ggaagacgaa ggacgaggca ggccgagcta ccagaggacc ttgtcaggcg ggctgcagag 240  
 cccagagcc acccaagtgc ccagagggc gatcctcgag aggatgaagt ccaagggcga 300  
 gttgtccaag tcgtaccagc tcgggcacag gctgtccctc aaatggagca ccggggctgg 360



cccgaggatc ggggtgcgtca aggactaccc gatggagctc cggat

405

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<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-C2

<400> 30649

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tgcaaaatga ctcgactgca cagtaagctg gtgtgacagc aactgggaac aacaccgatc 180  
tcttcaagga cttgctaagc tacttggtag agtaaggcac accgtatggg acacctgac 240  
cttctgggta gatggaggct atcatcgaca tgatttgatc actgtaacaa tcactatctc 300  
actgattgat cagc 314

<210> 30650  
<211> 358  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-C3

<400> 30650

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gagatggact tatttcgaac gaccatttg accagaaatt aacatgctct tgtgggttgg 180  
agatgaatgt gcatcagcgt cggcctgtac tttctgattc ttacaccgct gatgatatat 240  
agaataatgt ttgtatcttg tcaatttacg gaacagacat gaaattcaat gcaggtcact 300  
ggtttctgaa tcaaaaaaaaa aaaaataaat taaaaaaaaa ttaaaaaaat attaattt 358

<210> 30651  
<211> 314  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-B1

<400> 30651

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ttgggtctggt tacggcacat tctagtgtca ccgtacaggt caaatgttca tgcgtgtaag 180  
gcgtgtcata ctgtcatggc actctacaag tgcattgtgcc agaaacgtgc atgcgtctct 240  
cggttacgga ctctttacag ttgcatctaa aacaattcaa agcaccttgc ggtgcatcct 300  
tgaaaagtgt gggc 314

<210> 30652

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H4

<400> 30652

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atggaatgtg cagatcgagc caaatcaaaa agaggaacat cattactgga gtcaccaattc 180  
atactaccgg tcgactatat atgaacgaag cctgcctaga gctcaacatg aagctgaatc 240  
agcagcatgt caaatcgaaa tagatggaaa cgacttcaca caacaataga gcacgctgta 300  
ctggctacaa atatgtttct ccaactgctc ggagaaagac ctactgaaca atactagata 360  
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<210> 30653

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H6

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acgatcgagg agagaataac gcagagctct ctgctcccgg cctgtcttct gccgtcccgg 180

ccgtttaatt tactagtgtg ttcgtcctat atgttttagca gcagcaggtg tattgtgcgg 240  
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 caagg 305

<210> 30654  
 <211> 430  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 ggcggcggcg ccgccaaca agggcccgcc gaacgttacg gcgatcctgg agaagggcgg 180  
 gcagtacacg acgttcatgc ggctgatgaa gtcgacgcag caggacacgc agctgaacgg 240  
 ccagctgaac aactcgttcg gcagcgggta cacggagtgc gcgccaccg acagcgcctt 300  
 ctccagcctc aagcccggca cgctgaacaa gctgtcgcag catgagcagg tgtcgctgggt 360  
 gcagtaccac gtcttgccgc agttctactc gctcgactcc ttcgagaccg ncagcaacct 420  
 cgtgcgtacg 430

<210> 30655  
 <211> 212  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H8

<400> 30655

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 accaataagc tagctcttgt tgttgttttg tatgtttgat tgggtgtccc ttcccagtcg 180  
 agatggaata aaataaatca tcaggcgcca at 212

<210> 30656

<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H9

<400> 30656

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tgttcccaa gatcttcccc gagcagtaca agagcatcga gaccgtcgag ggcgacggca 180  
agtcggccgg caccgtccgc ctctcaagt acaccgaggc ggtgccgatg ctgacgttcg 240  
ccaaggagaa gcttgagacg gcggacgacg agaacaaggt ggtgtcgtac agcgtggtgg 300  
acggcgagct ggccgacttc tacaagaact tcaagatcac gctgaagggt actccggcca 360  
aggcggacgg cgagggcggc gccgtcgtca gctgggccat ggagttcgac aaggccaacg 420  
accaggtgcc cgacccggac g 441

<210> 30657  
<211> 327  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A1

<400> 30657

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ctggtcgccg tctctgtggt cctggccgcg gcgggtggcg gctccgcggc gcgccccgtc 180  
cccgcgcagc agcagcagca ggccgggagag gacgtgaagc ggccggacac gctgcacgag 240  
gggacgggtg tgatccccgg gatggggcgc tacgagatcg gcagccacta catccccggac 300  
atcggcgggc tggaccacag cattccc 327

<210> 30658  
<211> 415  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A10

<400> 30658

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gtgtctgatc catccttccg cccacttggt gacaaatacg cagcggacga ggatgctttc 120

tttgctgact acgccgaggg ccacctgaag ctttcagaat tgggatttgc tgaggcgtaa 180

agtgagagag aacgaaccag aagagtgtgg tggttgtcgt cggccggcag gccttgtggt 240

tttgtgtct gcttttctct tgaatgaaaa tgtgatgaac tctgctgaag atgtaatgtg 300

tatgttgta tggttcattt ttctatttta tttatctata atatctgtcg gagaagcttt 360

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<210> 30659

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-048-Q1-K1-A11

<400> 30659

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ctgatgaacc ttgggtgtgc tactggccat cctagctttg tcatgtcctg ctcatcact 180

aaccaggtca ttgcccaact tgaactgtgg aaggagaaga gctctggcaa gtatgagaag 240

aaggtgtatg tgctcccaa gcaccttgat gagaagggtg ctgctctcca cttngncaag 300

cttggtgcca agctgaccaa gtcaccaag tctcaggccg actacatcag cgtgccgatc 360

gagggtcctt acaagcctgc cactaccgg tactaggcag ccagcacacg gcttgacgt 420

cactcgggcc cgtgtgtgct atgaag 446

<210> 30660

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A2

<400> 30660

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tgcgcgtcca acatatcggg gatgtgattg atattttgca aacaaccaca catcatctat 120  
 atgacctga tgaactcctg acattcgcgt ttgacaagat tggttcaatg ccaacaaata 180  
 caatcacaaa ggaaaggaaa aagcaggaga ctgttgcct ggctgagctt gatcaaagaa 240  
 caagacggct gagttcactc aagatggatg gatagtttgt aaaatacaag ttcttgaaag 300  
 ctgtagtctt ggctattcg gcacctgggc ccacagcgta tgcttactg agcgaaaaat 360  
 catgggtcta ccgaatactg ggagatggaa agctgcagta tgtgtttgtt gaacacgagt 420  
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<210> 30661  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A3

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 tgtttacggg ttcattgtgc tgggctttct gatactcacc attgtcacca tatgtgtaac 180  
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 gaagaccaag atgtctggat tctttcagac cagcttctat aacggctaca ctctaattgtt 360  
 ctgcctacgc ttatgaacac tatgctgtgc cgactagtat cttggatcga catttgttgt 420  
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<210> 30662  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A4

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 agacgcattg atcgtgtaaa tgaatcagaa attacaacta agacgtatgc ctcaatattt 360  
 tccccatttt ggaatgaaat tatcaagagc ttgcgtgaag aggactatat cagcaacagg 420  
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<210> 30663  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A5

<400> 30663

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 catgcctgct attttctatg gaagcagcta tgacacatat gccccttcaa ctctatctac 180  
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 actttctgaa atacctacag aagtatacaa tcagatct 278

<210> 30664  
 <211> 412  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A6

<400> 30664

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 acgctggggc gtccaagacc taccgcagc aggctggcac cgtccgtaag aacggcttca 180  
 tcgtcatcaa gaaccgtccc tgcaaggttg tggaggtttc tacctgcaag actggtgaag 240  
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 atattgttcc ttcatcacac aactgtgaca ttccgcatgt gaaccgtact gagtatcagc 360

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<210> 30665  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A7

<400> 30665

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tcaagccgtc gaccgccgcg gcgccgacc ccgtggcctc tcttcccgcc ccgtccaccg 360  
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<210> 30666  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H3

<400> 30666

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agattaacat gactactgga gctacaattc atacaaccag tggactatat atgaatgtaa 180  
gcctgcgtaa agttcagcaa gaagctgagt tagcgtgag cgaatcgaaa tagatggaaa 240  
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ttgaaagctc tactgtacta tactagatgt caatgcgtcg gcatacagat tacagattcg 360  
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<210> 30667  
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<212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 agcagcatca agaccatggc cctcgtgctg cgcaccacca aggccagcgc cggcggcttc 180  
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<210> 30668  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-047-Q1-K1-G1  
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 aagtgcagcg atcaagtttg cgtaacatt ggcacgccta gccagaggta caaactgctt 180  
 ctcatgagc gggatgagac gggatgacaca gacttcaccc tctttggctg gatggcgcaa 240  
 cacatcatca agaagccgtg cgatatgctc attgccaaca atccgatcgg ctttattcct 300  
 gatccaatca cagatctgct cgagaagacg tatctatgga atgtgagttt ctctgaccac 360  
 acaatcaata ctggaaatat ttgtttccag gtcaacgcaa tcgtggcaga gataggta 418

<210> 30669  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G10

<400> 30669

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ctcatacatc tgaattgact agtccaactc agggatttct ttggggacca atcaaactca 180  
agaactaagt ttcatgtctg atctcgacgt ccagcttcca tctgcttttg atccgtttgc 240  
agaggcaaat gctgaggact ccagtgtctg tgctggatca aaggactatg tgcacgtgcg 300  
tattcagcag cgcaacggaa ggaagagtct gacaactgtt cagggcttga agaaagagta 360  
cagctacaac aagatcctca aggatctcaa aaaagagttc tgctgcaatg gtactgtagt 420  
ccaggatcca gagctaggcc aggtcattca act 453

<210> 30670

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G11

<400> 30670

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gttgcttget gatgcttttg aagcgtacaa gaggaacaa gaaacagcta cataagatac 120  
tctatgactg taatgagcag ttgaagcagt ttagtcatgt gaaccaaag gctcttgacc 180  
aatatgtgaa cttcacagaa caacgcgaac aactgcagag aaggcgagct gaacttgatg 240  
ccggtgatgt gaaaatcatg gaactcatat cggttttaga ccaaaggaag gatgaatcca 300  
ttgagcgcac atttaaagg gttgcaaggc acttccgtga aagtgtttct gagctgggtgc 360  
aaagtgggtca tggatatttg gttatgatga agaaaaagga tggggatgca attgatgatg 420  
atgaagaaga agatggacct cgtgat 446

<210> 30671

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G12

<400> 30671

cccacgcgtc cgaaaaaaaa aaaaaaaaaat aataatttaa aaaaaaaaaa aaaaaaaatt 60  
gtaaaagtta aaattcaaaa aaaaaaaaac atgactccca ttttat 106

<210> 30672

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-G2

<400> 30672

cgcagaaact ttttcttcga agttgaacaa agttcttctt cctaattccat ttgatagacc 60  
gcggtgctggt ttctctgtgc aaattgctgg gttcgatggt cctagcttcg tatctgaagg 120  
cagcaacatt ttcaagacca ggattgaagg tgcaaacatc gctgatacag ggcttacaga 180  
taaggatgac ttaattgtca ttcattcgga tgaatctcta gatctctctc gatcagatta 240  
tcttgataat gaactttcca gcttggcaaa ctgggttgag ggatcttatac agaagtctac 300  
cggcaaaacta gtcattccct tggagaatgg aaacagtctt actttgcaac ttgataagga 360  
agcagacaag gaattcatgt ccagcttggc tttccttctt aagactatct gaagggcgat 420  
ccanngtcat gaagatttct caagtgtcgt gaacc 455

<210> 30673

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G4

<400> 30673

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attggcactg agttactacg ggcaaactctt tatgagtttc agaaatataa ccaggagtct 120  
tgttacgagg tgtacttttc actgcccaga atacaggcta tagctcgaca atgcttggag 180  
gctttggtgt acttgcacatc tttaaacata gttcactgtg atctgaaacc agagaatatac 240  
cttctgaaga gctacagcag atgtgaaatc aaagttattg atcttggaag cagctgcttc 300  
ttgtcagata acttaaactt atatgtccaa tcacgttctt accgatctcc tgaggtcatc 360

ttgggtttac catatgatca gaaaattgac atttgggtctc ttggctgcat cttatctgaa 420  
ctgtacactg gtgaagtac 439

<210> 30674  
<211> 447  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-047-Q1-K1-G5

<400> 30674

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ccgtgcttca tggcgcatatg tctcttctat tgaacagaag gaggagtccc gtaagaacga 120  
agagcatgtg aaccttatca aggaataccg tgcgaagatc gaggctgaac tgagcaatat 180  
ctgtgatggc atcctgaagc tgcttgactc ccacctagtg ccttcttcta ctgctgctga 240  
atcaaaggtc ttctacctca agatgaaggg tgactatcac aggtatcttg cggaatttaa 300  
gactggctct gagaggaagg aatctgctga gagcacgatg atggcctaca aggctgctca 360  
ggacattgcg ctggctgagc tggcacctac ccatccgata aggcttgngc ttgctcttaa 420  
cttctcagtg ttctattatg agattct 447

<210> 30675  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G7

<400> 30675

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ccgtgcttca tggcgcatatg gctcttctat tgaacagaag gaggagtccc gtaagaacga 120  
agagcatgtg aaccttatca aggaataccg tgcgaagatc gaggctttat tgtgttatat 180  
cttatatgtc atcctgaatt tgctttactc ccacctagtg ccttcttcta ctgctgctga 240  
atcaatggtc ttttacctta tgacgatggg ttactatcaa aggtatcttg cggaatttaa 300  
gactg 305

<210> 30676  
 <211> 269  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-G9

<400> 30676

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ctccaaaata tgattcgtct ggtctggcgt gcgtgagtc agctcgtgtg tcgtgcgtgt 60
ctctgtgtga ggtgtcgtcg ggcgtgtgta tgtatggaca gtcggccgcg gcggcgccgg 120
aggtgtgcga gtggtggtgg tggtagctgc ttcgacgcgc cactgtttgt cgcggcgatc 180
atgtactacc ctgctgcgtt ttctggttat caatgagatg atttatttga ttcttttcag 240
cctgggcact aataagcgca cccagtttt 269
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<210> 30677  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-047-Q1-K1-H1

<400> 30677

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cactggggcg acaccacggt gatcgacgac gcgtgacgg acggggccag cgcgtcgtcg 120
tcgcggtcgt tcgggcgcgc ccagggcacc tacatgctgg cgtcgctcac ggagtctgtg 180
ctggcggtgt tcatgaccgt ggcgcttacg gccggggcct acaacggcag cgcgctcgtc 240
gtcgtgggcg cgacgacgtc tcggcgggcg tcaggagct cgcggtggtc ggcggcaccg 300
gcgcgttccg gagagctacg ggccacgtgc tgtggcggac ggccaggatg gagtcccg 360
accacatggt gctggagctc gacgtctacg ccaccgtgcc ggccgctagt tcggcttcgn 420
ctccgcgcgc cgga 434
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<210> 30678  
 <211> 451  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-H10

<400> 30678

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agagagcgaa tgcagcaatt tggtactctc attacaagct caataaataa ggacttacca 120  
tctaattctgg agaagtcact taagaaagaa atttcttcac ttgggcctgt tgttgctcgt 180  
gcaattacgc ctattattga gaagtgtcta acctctgctg tttctgattc agttcagaaa 240  
gggttgggtg acaagttggt caatcagctg gaaaagtcta ttactggaaa acttgaagct 300  
acacttgcca ggcaaatcca aatccagttc catacatctg gaaaacaggc tcttcaggat 360  
gctttacgta ctagctntga atcattgctt gttccagcgt ttgagcaagc atgcaagaca 420  
atgtttgagc aaatagatgg tgcatttcaa a 451

<210> 30679

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-H12

<400> 30679

ggagaggaag agtcttgcct gcttttcctt tttgaacttt cttttgtgcc ttcacctgtg 60  
ttacattttg agtcgagggc tcctcttaaa ttgtgtgcag aggggctcga ttttgttacc 120  
ccagaacaag gcgcatgtgc gtcggcgtcg tcttctgcc a cgtatctat cgaccttatg 180  
tacatcttca tctatatata gtatgagttt tgatgtcatc tatttcttgg atgtctcaca 240  
aggttattta tttgtaaaaa aaaaaataa aaaaaataa ataaaaaaaa aaaaaaagat 300  
acaataaaaa aaccccataa aaaaaaaaaa aaatacatat ataaaacaaa catctaatat 360  
aaactatact tactttcatt atacttacat ac 392

<210> 30680

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F8

<400> 30680

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 atgaacggct ttatcatgga agcttacata agctactctt tgtaagatca gatggtcgtg 120  
 tcatggactg gtctagacgt ttgtagggtg ccctgggtgc tgccagacgt ctagctatct 180  
 tgcgatga aggacccttt caggccatgt acagcgagtt ctcaactttg aacatccaaa 240  
 tagataaagg ttacactgct aagctttcaa gatatggttg tgatggcttc aataccgagg 300  
 agatatctaa tgcacctgtg tctgcagcaa acctttcggg ggagaccttg tagaaggggt 360  
 tactcactcc caagagcaac gtatgtagct ttggagtcgt gttactggag ctaatcactt 420  
 ggaggaagaa ccttgatccc aattattcca a 451

<210> 30681

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E4

<400> 30681

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 actatccaaa tttctcatat aattttattt ttcattatat atttacagta taataaacat 120  
 actcgatata ttcacacaac catcctagta tataaatctg aactgatata aaactaaatt 180  
 aaaatataca aacctatctc tttaaaaaat caaaacaaac atacacatgc attctacaat 240  
 atatcattaa ctaatttaaa tccaaatata ata 273

<210> 30682

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E5

<400> 30682

tagacgtacg catcagtata agcttcctaa agctcgtgct cgctaacata catagtcaaa 60  
 ctgtatgagg tggcggggac aattgtatgc taggtgggct tcatggacat taactataaa 120  
 taaatgaata aatgtttgat gtatgaagat cagctctagt atgctatgta tgactccata 180  
 ttcgtcgtat tatgacatgg tgtgctcatg aagtcaagtg tgactagtgt atatattgtg 240

gaacgataac aattgcataa ttaaagggct gtgcagtggc attagaaaat actagcttaa 300  
cgatgttgtc aatatgatca g 321

<210> 30683  
<211> 372  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E6

<400> 30683

atgatacaca gcaagcgcga gcatatgatg attgccatta gagagtagcg acattaacgg 60  
tgttccccac ttctttcccc tcccgttcaa tctcactggc ctttgattgt attatatgtg 120  
agcatccatc attctgtgaa aaaaaaacia aaaaaaaaat ataaaaaaaa aaaaaaaaaa 180  
gaaagcccta taaatgatcc aagacaaagt catgcaagaa tgcgacgaca aacacattct 240  
ctgggtgaaac tgatttataa cttagctctc gtactggagc tatgacttga ctgctaaatc 300  
cctgggggtca tccaacgtat tcgatatacg gcaaatacct cttgtaccag ctcacgctga 360  
ccctaactga ct 372

<210> 30684  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E7

<400> 30684

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ggtcctagta tgatagacaa gtaatataaa tagtagagtt attgtaaggg aatattagag 120  
tgattaaatg tctatgactg ataaaaataag aataagggtt ataaactatg gcaagagatg 180  
aaggttgtga aaatatatgt gcttcaagaa gtttagctatg atcatagtat tataatgact 240  
gatgaaactc attcaaagca tgattatgat actcaagata tgata 285

<210> 30685  
<211> 438  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3067-047-Q1-K1-E8

<400> 30685

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gccggtacgg cgtcggcggc ggtgagctgc ggcgaggtga cgtcgtcggg ggcgccgtgc 120  
ctcgggtacg cgatgggcag cgcggcgctc cctctccgcg gcggtgctgca gcggggtgcg 180  
ctcgtcaaac agccgcgcgt cgtcggcggc ggaccggcag gccacctgca actgcctcaa 240  
gagcatgacg ggccggctcg gcggcggcgt cagcatggcc aacgccgcca acatccccgg 300  
caagtgcggc gtctccgtcg gcggtgccat cagccccacc gtcgactgca ccaagatcaa 360  
ctgatcgatg gaaccatagt ggaggtagct cgctcgttgg atggcagcgt acgtggccat 420  
cagcagcatg cagtcgtc 438

<210> 30686

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-E9

<400> 30686

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tccaggetca ccatggtctc caccgaggag atcctcctcg agcgcccccg cgccccaggg 120  
agcaaagctg aggagtcagc tgcattctgt gatccgctgg ctatggcgag caagggaggt 180  
gctgtttctc tggtttgag aacctgtggg aagaagggcg atcactggac ctcaaagtgt 240  
ccgtacaagg acctggcacc accgactgaa actttcacgg acaggcctnc aacgtcagat 300  
ggccctcctg caccaggtgg tctgctaag ggagcatatg ttctncaac catgagagga 360  
agtgtgata ggactggaga ctcgatgcgc cgcaggaacg acgagaattc cgtccgtgtg 420  
accaacctct cggaggacac ccgcgagcct gac 453

<210> 30687

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-F1

<400> 30687

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acacgctgcc aacgccatat gcaccggccg gaccacatac tacaaggact accgacggtt 180  
cacgcttacc cgcgacgtca acacctgcag cctcgtcgtc gacaccgtgg gtgaatacca 240  
ctcgggtgtg ggtgccaaagc gcaatggacg gcacaagggg aagaaagga agaagggaaa 300  
gcaggatgca cctgtgactg acttcgtgcc ggttaagaca cagattaggc tggacgagaa 360  
cactgncaac aatgaggctg ctggggc 387

<210> 30688

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F10

<400> 30688

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aagatccccg gggacttcat cctcaagtac atcttcacaga tcaacgtgga ccgttccaag 180  
tggatcgacc tgtcgggtcat tttcagcatg atcttcatct accgcatact cttcttcctc 240  
atgatcaaga tcaacgagga cgcgctgccg tggatccgcg gccacatcgc gaggaagagg 300  
atgcagaaga agggccctac cccaccatg ggcaagacgc cttcgtctgag aggctacgtc 360  
gtcgatccgg agctcggttc caacgagggc tagaagtcgt gcttggttctt ttgggtagcg 420  
gaaaaaaaaat aaggtgtttc tcccccccg 449

<210> 30689

<211> 133

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-F11

<400> 30689

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 tcntgggccca ttccgtecgt gttgacgcat gtatttttct tgtgctatgg aaccttgctt 120  
 ttggtacggc act 133

<210> 30690  
 <211> 370  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F12

<400> 30690

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 caatgtcctc gggtaggggt tccttacggc tttgtggagg ggcgatggcg gggctgatg 120  
 tggagtaccg ttgcttcgtc ggcgggcttg cctgggccac cagcaacgag tcgctggaga 180  
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 ggaggtctcg cggcttcggc ttcgttacct tctcctccga gaactccatg ctcgacgcta 300  
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 cccgtggcgg 370

<210> 30691  
 <211> 431  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F2

<400> 30691

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 ccccgctgcc gacgccatcg gcaccggccg gaccacatac tacaaggact accgccggtt 180  
 cacgcttacc cgcgacgtca acacctgcag cctcgtcgtc gacaccgtgg gtgaatacca 240  
 ctcgggtgtg ggtgccaagc gcaatggacg gcgcaagggg aagaaagga agaagggaaa 300  
 gcaggatgca cctgtgactg acttcgtgcc ggttaagaca cagattaagc tggacgagaa 360  
 cactgccaac aatgaggctg ctggggctgc aacggagccg gtgtttggtg ttggtgaggc 420

tgtcaatgac a

431

<210> 30692  
<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F3

<400> 30692

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tatggctaga atctcctgac gatcaagaaa ctcatcacac tggcgaggca tccatggtgg 180  
gaccagact tttagctcaa ggaatatacg actagggcca gaaatcagtg tcggtctacc 240  
ttcctgggaa ggagtcattg catgactcga gaaatggatc tgcatacaag ggaagcgcga 300  
cacacatgct acaggatcta gaagatagcc attccagctt ccatagaggc tgtacaa 357

<210> 30693  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-F4

<400> 30693

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ggtgactagg tgtactattc actgctcaga atacacgcta tagctcgaca atgcttgag 180  
gactcgggtg acttgcatca tttaaacata gttcactgtg atctgaaacc atagaatatt 240  
cttctgaaga gctacagccg atgtgaaatc aaagttattg atcttggaag cagctgcttc 300  
ttgtcagata acttaaaact atatgtccaa tcacgtgctt accgatctcc tgaggtcatt 360  
tcgggtttac catatgatca gaaaattgac atttggctctc ttggctgcat cttatctgaa 420  
ctgtacactg gt 432

<210> 30694  
<211> 390

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-047-Q1-K1-F5  
  
 <400> 30694  
  
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 ggtgacgagg tgtacttttc actgccccaaa atacaggcta tagctcgaca atgcttgaag 180  
 gctgtggtgt acttgcattca tttaaacata gttcactgtg atctgaaacc agagaatatc 240  
 cttctgaaga gctacagcag atgtgaaatc atagttatag atcttggaag cagctgcttc 300  
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 ttgcgtttac catatgatca aaaaattgac 390

<210> 30695  
 <211> 448  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-047-Q1-K1-F6  
  
 <400> 30695  
  
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 gggcctggaa tgatccagca aatgcagcat ccttgcaacg agtgcaaggg ttctggagag 120  
 acaatcagcg acaaggatag atgcccacag tgcaaggggtg ataaagttgt gcaggagaag 180  
 aaggttcttg aagtgtttgt ggagaaaggc atgcagaatg ggcagaagat cacattccct 240  
 ggtgaagctg atgaagcgcc tgacactgtc actggagata tcatttttgt tctccagcag 300  
 aaggagcatt ccaagttcaa gagaaagggc gatgacctct tctacgagca caccctgacc 360  
 ttgactgaat ctctgtgtgg cttccagttt gttgtgactc acttggataa caggcagctg 420  
 ctgatcaaat caaatccggg cgaagttg 448

<210> 30696  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-047-Q1-K1-F7

<400> 30696

cccacgcgtc cgatacgtaa catttctcgt cctgtggatg ttectgacgt tggctcttcta 60

tgtgatctgt tatggtcgga ccctgataaa gagattgttg ggtgggggtga gaatgacagg 120

ggtgtttcct acacctttgg agctgacata gttgctgagt ttcttcagaa acatgatcta 180

gatttgatct gcagggtcga ccaggctgta gaggatggct atgagttttt cgcaaatacgt 240

cggcttgtaa caatattctc agcaccgaac tactgtggag agtttgacaa tgctgggtgca 300

ctgatgagca tcgacgactc cctagtatgc tcgttcagaa tactcaagcc ttctgaaaag 360

aaaagaaaag caggagctga gaacatgcc aagcccggta caccttcag gaagataaaa 420

ataagtgtta cccgcattta g 441

<210> 30697

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-E3

<400> 30697

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tcattctatca cgaccagctc tagtatgctc tctatgactc catcttcgctc gtattatgac 180

acggctctacc catgccgccc accttcaacta gtgtatatat gntgaacgac aacaactgca 240

tcaataaaga actctgcact cgcattagaa aacacaggct taacgatctc gtcaatatga 300

tcagctaccc tgtcaactgc actgtcccga ttgcagcaca tgttctcaag aatgctggta 360

cttatcatga g 371

<210> 30698

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D1

<400> 30698

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 gccgagagat ggccggagaa attattcgaa gaagtgagaa gggcattcac gatgctagag 180  
 aagtagctga ggctgctgac aagagcgcag aagccgaagg tcaattaggt actaaataat 240  
 agttcttata gtgttgtaat ctttaggctt ttaagatctg tttgcgattt gtaatagcaa 300  
 tgtagccggg tcttgcttca gatccgacta aagcgccttc ggaccctcag ccgaaggggg 360  
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<210> 30699

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D10

<400> 30699

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 ggcggtgcag ccgcccggct ccagtgccgt ggatttcagt attcaggatg tcaagggtc 120  
 atccaaaagc ttccccaagc acgaggtgaa gcatgtctct gaccataaga acgctgcccc 180  
 gtgtgcgaaa tttagtcttg atggaaagta ttttgcaact gggagtgtctg atacatccat 240  
 taagtTTTTT gaggttgcta agattaagca gactatggta ggagactcta aagatggccc 300  
 tgccaggcct gtgatacga ctttttatga tcacacacag gccatcaatg atctggattt 360  
 tcatcctgag agtccaatac tgatatcagc tgccaaagac aggacaataa gattctttga 420  
 cttttcaaaa accaatg 437

<210> 30700

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D11

<400> 30700

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cgccttcagc acctacggcg aggtcctcga gtccaagatt atcctcgatc gggagacgca 180  
 gaggtcccg cggcttcggct tcgtcacctt ctccaaggag gagggcgatgc tgaacgccat 240  
 cgagggcatg aacggcaagg agctggacgg ccgctacatc accgtcaacg agggccagtc 300  
 ccgcgggcggc cgtggaggcg gctgcagcag ctaccgtggt ggccgaggag gctgcggcta 360  
 cagcggtggc gggcgccgtg atggctgcgg cggtacagc ggtggctg 408

<210> 30701  
 <211> 358  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D12

<400> 30701

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 tactcggaca accagcctgg tgtgttgatc caggtgtacg agggcgagag gacccggacc 180  
 cgcgacaaca acctgcttgg gaaattcgag ctctccggca tcccaccggc tccccgtggt 240  
 gtcccccaga tcacggctctg cttcgacatc gacgccaacg gcatactgaa cgtgtctgcc 300  
 gaggacaaga cgacggggca aaagaacaag atcacaatca ccaacgacaa gggccgtc 358

<210> 30702  
 <211> 351  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D2

<400> 30702

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 ctcgggcccg ccacgccact cactgggtcc tcagtctccg ctagttccgt cggcggcagg 120  
 cgggtggagaa gcgtgagggc ggacgccggc gggggctggc tatccgggct gctgggcggc 180  
 aagggcggcg gcgcgtccac ggcgatgatg gtgacgccgg gaaccgtgaa ggccggcgac 240  
 cccgtcctgc acgagcccg gcaggagggt gcgccgggtg acgtgctgtc cgagaagggt 300  
 caaggcgtca tcgaccggat gtcgacgtc atgcgcaagg cccagggcgt c 351



<210> 30703  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D3

<400> 30703

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ggacgcagcg ccttctctct ccatgggcat cagcatcgcc attggcagca tgatggaggt 120  
cgacgccgac gaccgccaac ccagtccgcc tcccgacgcc gactttcttca acgccttccc 180  
cgacgacttc gacgaccaag acctcgactg attgccgccc ccgcttcttt gctcgcccgg 240  
acccttccg ccagttggga gtcgtatacg aacctaccta cttccaagga agcaccagtc 300  
atccatcacc ttgtacatgt ttttatgttg cagcactagt ggtgtttaat tgtcagctgc 360  
gatcatgtga gaacctgacc tggtagatta tgtatataag aagaaataga accctgtaac 420  
ttaatat 427

<210> 30704  
<211> 455  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D4

<400> 30704

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ttgaaggcga tgacatggaa gagatggatg acatggaaga ctttgaaggc ctcatgatg 180  
gaggcacgga tgacgatgat gttttggatg atcccgatc aaggaaatcc aagggatcct 240  
cttcttattc gaagcaaaat gtcgggaaaa ggtctaggaa ggttatgact gacgtggaag 300  
aagacgagga gataaatacg aggcaaaggc aaagggcgtg agtgcgagat gtgcaactgc 360  
aacgacggtt atatgatgac agatgccggc aggcattcac ttctgatgta tggtggatca 420  
ttttatactt gccttcgtac tgtaacgcgg agtgc 455

<210> 30705

<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D5

<400> 30705

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gcgtgactca ttcattggag actcacgcac tgtcatgata tcatgcattt ctccctagttc 120  
tggctcttgt gagcatactc tgaacacatt gagatatgca gacagagtga agagtttgtc 180  
aaaggggaagc aatgccaaaga aagatgtgtc tttggcagtg cctttaagag agtcgagccc 240  
ttcctcactg ccttcagatg taccctcatt ctctgcatct gaagtgatga atgatatcac 300  
cgagagaaaac aatttttggtt ggcccaagca gcagtatggt aaagaacggc ctgctacgac 360  
atttgttgaa cgaatgcccc aagtgaaaga tgccgtggag ttcggaacat cagacagtgc 420  
ttat 424

<210> 30706  
<211> 435  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-047-Q1-K1-D7

<400> 30706

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gatactactc aggaagaccc catggagggtc gctgatgcc aagcagattt gaactatatt 120  
ggctcttgatg gagagattgg ttgcatgggtg aatggagcag gattggccat ggcgaccatg 180  
gatattataa agttgcatgg tggtagctc gccaatgtc ttgatatcag aggaagtgc 240  
tcagaggggtc atgttggtgca aactctcaag atactgactt cagatgatag agtgaatgca 300  
attctagtga acatttttgg aggcattatg aaatgttatg tgatagcaag tggaattgat 360  
aatgcagcnc aacatgttga cctgaaagtt cctgaggtag ttcggttga aggcacctat 420  
ttataccaag gaaag 435

<210> 30707  
<211> 155

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D8

<400> 30707

aaaaaaaaa aaaaaaaaaa aaaaaaaatt taaaaaaca aaaaaaaaaa aaaaaaaaaa 60  
 gggatactaa taaaaaaagt cacaacaaca aacattcaat atcactacct attttatcta 120  
 tctaggtatt tttatttata tttcctacat tttaac 155

<210> 30708  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-D9

<400> 30708

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 tgagttcaag cagcttgaca caaatgtgag cttgaaggaa tctgatgcct ggctgctga 180  
 gcctcaagat gcctatggct tggagaagct tgcaaccgag gagctgtgca agcactacac 240  
 caaggacttt ggcacgcagt gccgcgtcgg ccgcttcac aacatctacg gccctttcgg 300  
 aacatggaaa ggtggccgcg agaaggcacc ggctgccttc tgcagaaagg ctcagacatc 360  
 cacggagagg tttgagatgt ggggcgatgg tctccagacc aggtccttca ccttcacga 420  
 cgagtgcgtg gaggggtgttc tgagat 446

<210> 30709  
 <211> 443  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E1

<400> 30709

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 aatggcaaag agtcagagcc gcccataaat ggggcgcaac ctgaagtacc atccattgcg 180

ttcttaaaga aaagaattaa aacagttcta aggtcctgtc gagataggaa ccctaaggag 240  
 agcacattac gctctactta cgaggatctt caccttgaaa cggcgagcgc cgaaaagcgg 300  
 gtaaaaatcg cccagggcct agaaaatctg tacaggcgaa gccaatatct cgggagtaac 360  
 acaaggcagc agccccatac cgacttgatt attcagatct gcgattggga gcgtacgaag 420  
 agggtaaaga attcactggg gta 443

<210> 30710  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E10

<400> 30710

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 aatgggtttt gttgcatgct tacacaggct acttacatca agaagtatgg catcacatat 180  
 gatggcgttt cctgtcgctg ttgggagaat aatgggtttg cttaggaatg gttcgggaagg 240  
 agtagctgct gaagctgctg gacttgtggc tatgctaatt ggtggtgggc cttgtgattc 300  
 atctatctta atggatacaa ggggagaatc ccatgccacc tacatgcatg caaagtctgt 360  
 actattctcg caaccaatgt atgttccgat cttgttaac cggttgaagc caatatcggg 420  
 gtcaccattt gtatctct 438

<210> 30711  
 <211> 378  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E12

<400> 30711

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 agccggcgga ggaggagccc gctgccgaga aggcgccggc cgggaagaag cccaaggcgg 180  
 agaagcgtgt cccagcaggc aagtccgccg gcaaggaggg cggcgaggga aagagggggc 240

ggaagaaggg caagaagagc gtggagacct acaagatcta catcttcaag gtgctgaagc 300  
 aggtgcaccc ggacatcggc atctcctcta aggccatgtc catcatgaac tccttcatca 360  
 acgacatctt cgagaagc 378

<210> 30712  
 <211> 315  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-E2

<400> 30712

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 gtgtactagt caattgttat ggtacagcga aaaagagaga agaggatgat ggcattcgca 180  
 gcgaggtgtt gagattccgt tgtagccatg catttgcagc cgattgtttg gtactgggtca 240  
 aagttctgta gtagtcataa tactctgctc aaaatataga aagaagaatg gcttcgtcaa 300  
 tatcagatgt tgaga 315

<210> 30713  
 <211> 456  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-047-Q1-K1-C9

<400> 30713

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 acgaggccgc cttcgacgcc gtcgtgtgct tcgagaccat gaaccgcac ctgttcggcg 180  
 acgacggtgg cgaccggcgc ccggccgtgg tgctcaaacc ggcggtggac gcaatcgctg 240  
 ccgggctgcy cgccgctggc tccaaccac gccggacgct gttcctggac gacagcgaga 300  
 ggaacatcgc cgcggggaaa gcgctcggcc tncgcaccgt cctggttggc aagagcgcga 360  
 ggagcaagga agcggactac gcggtggaga gcatcggcgc gctccggcgg gccatcccgg 420

agatctgggg cgagggcgct tgacgtcct tcgaca

456

<210> 30714

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B5

<400> 30714

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atattatctg aggaccatga ctccaagtgc ttttgagtca gcacttcgtc aaaaggatgg 120

agagcttgct tcttacatgt ctgccttggc ctcatggaa tctattcgga attcactggc 180

agaggagtgg gtgaaactga cagaacaatg tgaaaagtta cggactgaag ccgctgctgt 240

gcctggctta agggctgaat tggaagctct gaaacaaagg cacttccaag ctctagaact 300

aatgggggaa cgtgatgaag agttggagga gctaagaaat gatattgttg acctaaaaga 360

gatgtacagg gagcaagtgg atcttcttgt tagccagctc caggcattgg gtgctcgtgt 420

at 422

<210> 30715

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B6

<400> 30715

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ccgcggcacc gtgccgctgt cgctggagcg cctgtccacg ctgcagaagc tggacctcag 180

ctacaaccgc ctgtgcggcc cgctcccca ggggcacggc gtcacaaagc acgggtgcaa 240

gccgtacgcg cacaaccagt gcagcaaagg gaccccgctc gcgggatgcc aggacctgga 300

gtgagtgagt gagccggtgg ccatggtttt ctatactctg ctatgctctc cctcgccggc 360

gttccaatcg tgggtgtgtg tgaaggacga cggtacggtg cctggttttag ttatagac 418

<210> 30716

<211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-047-Q1-K1-B7  
  
 <400> 30716  
  
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 tgatggccga gagggggaatg gctaccaagt accaacgtga aggcagttgg aatttgaggg 180  
 gctggatggg tcggaggcag tcggaagaga aggttgtcag aattggttcg gcaggtgtct 240  
 aataaaggct tactgttggg aaagaattgg atccacgggc agcttttttag tcatttgttt 300  
 ggaggcattg gattcattgg agggtcgatt tgtgattgta atcacgataa atgtaatgga 360  
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<210> 30717  
 <211> 425  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-047-Q1-K1-B8  
  
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 tttcgaagat attggccaca gtgattccgc aagggacatg atggagaagt accacatcgg 240  
 gcagatagat gcttcaacaa tcccagcaaa gcgtgctcat gtgcagcccc agcaagcacc 300  
 cagccatgca gacaaggata atgacctccc catcaagatc ctacagttcc ttgtgcccatt 360  
 tatgatcctg ggccttgcat ttggtatacg gcagtacacc aaatcagagt agtaactatt 420  
 cttag 425

<210> 30718  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B9

<400> 30718

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atttcgctta tgaggctggg cttcaggaga agttccctcc agttcctctt ttgaagtcct 180  
acctggaaga ctctaagaag acatcaaccg ctgcttcaga taattcaagc actagcagcg 240  
gccaatcagg gagcaatgtg aacaagaaag aacagtctgc actgcgagct gtcacatcaagt 300  
gtgttgagga tcgtaaaacta gaagctgagt ttccactgga ggggtcttcg gaagcaactt 360  
tgaggaacta gagaaa 376

<210> 30719

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-C1

<400> 30719

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ggggccgcct ccttccattc cgacgagctc ctctcaacg atgacgaaga gttcgagggc 180  
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ctcgagcacg accttggcga cggcaagggc ttcgtctcag ctggaacctt ctcgccccgc 360  
ctcaagacct tcgcccacgg cagcagacc ctactaaac ttcgctttac aaggaatgat 420  
tttactgang atgataaaac cgcgttc 447

<210> 30720

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C10

<400> 30720



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 agccgctgct tttcgttcgt cttcatccta cgcgagggcg aaaccacaa accctctccc 120  
 tcctgtactc cggccgacac atccaggggc gatgacgctg ggtagctccg gcgccggatc 180  
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 cattggtgat gggacagtga gctatggaat ggatgatgct gatgacatct acatgcggtc 300  
 atggactggg accatcattg gccctcaciaa tttgctttgt gacaaagact atccggagaa 360  
 gccaccatct gtcagattcc actcaagaat caacatgaca tgcgttaatc acgagacaag 420  
 aatggttgat ccaaggaagt ttggtttgc 449

<210> 30721

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C11

<400> 30721

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 cggcgcggcg ggccggcgacg ggcccaggcg atgctcgcag tgcgggcacc acgggcacaa 180  
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 catccggaag agcgccagca tggggaacat cgcgcacctc gccgcggagg gcagcggcgg 300  
 caggaagaa gggtagggct ccgacgggga gcgccgcac aagaagcgaa gtgaggcatg 360  
 gactgaagag gagcacaaga aagttctgct tggg 394

<210> 30722

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C2

<400> 30722

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gaacttcata aaaaagaaca aatgctttgt gaagcaaata agtgtcttcg aagaagactg 180  
gaggagagca accaggttat atggcagcat gcgtgggagc aaagcgagcg gcattctgaa 240  
gtgcagccgc agcagctcaa tggcaataac ttcttccatc ctctcgattg tgctggtgaa 300  
cccacccttc agatagggtta tccttcatag gcactgacta gctcatgcat gaccaccttg 360  
ctgccctcgt ggttgcca 378

<210> 30723  
<211> 423  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C3

<400> 30723

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tcgttcaactg gtacgtcggg gagggtatgg aagaggggtga gttctccgag gcccgtaggg 180  
acttggtctgc tcttgagaag gactatgagg aagtcggcgc agaggggtgca gatgacgagg 240  
gtgacgaggg cgatgactat tgagtagccg gttaataatt agttcgctgg tgcttaatgg 300  
ttgagttatt ttgagtatac tctgtatggg tccactccat tgcggtgctgc tgctgtgtgt 360  
ttccattttg tattttgtga taaattgttc gtagccccct attggccatg attgttggtc 420  
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<210> 30724  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C4

<400> 30724

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tgcacaaaca cctcaaatec tagtggtatg cttggtgctg gtctttagtc taagaaagct 180  
tgcgagttgg gtcttgaggt taaacctatg gtgaagacaa gccttgcccc tggatcagga 240

gttgtcacaa agtacttgct tcagagtggg cttcaagaat acctcaacca gcaaggattc 300  
catatcgatg gctatggctg taccacttgc attggaaact ctggtgatct cgatgaatcc 360  
gtatcaactg ccattacaga aaatgatggt gttgctgctg ctgatatgtc gggtaaccgt 420  
aacttcgagg gtcgtgtgca ccccttaac 449

<210> 30725

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C5

<400> 30725

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ctgagtggct cctatcgtgt tatgtttctg tcggttctta tctatctgtc gctgtgtggg 120  
ttacaactta cgtcgtaaga ctttattccc ccgctttgct actgggttat taagtttgtc 180  
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<210> 30726

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C6

<400> 30726

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaatata aaaaaaaaaa acaaaaacaa 180  
aaacataaat aaaatattta taaaatatta aataattaca aaaatattat aaatataaaa 240  
aaaaattaca tat 253

<210> 30727

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C7

<400> 30727

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actagtatgt tgcgaggag cgagtagacc gtgtgtttcg ctatcgtggg actagaataa 120

gccatgccaa tgaacatgag ccgaatagag gctacgtact gttattgtat cagtactagt 180

accctatata tatgggcgca ctacagttct gtgatgtaat ggattctgct agtatttgac 240

tct 243

<210> 30728

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 30728

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agaaggttaa tgcataatgat gtggacgata tggttatgcc attacatcgg tacatcaatg 180

atccagttgc ccatgaaatc attcataatg gggctacctt tcagattact gggttaacga 240

acaactcata ttttgatgga gcacatgagg ttcgacattg tgtcaggaag catccagatc 300

ttggtcgtat tgtgcttgaa gttgctaaga ataggctgga ccagatgcta tatgtaggac 360

ttacggagga tcatgaagaa tcagcgaggt tgtttgctca tatggtagga gcacaggtgc 420

tttcacaatc tngacattg acttttagat 449

<210> 30729

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B4

<400> 30729

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atcagtcaag ctgggtatca ttgaagacgc aactaacagg aaccgccttg cgaagcttct 120

tagatttgaa agtaccaagt cggatggcaa acttgccctc cttgacgagt acatttcaag 180  
gatgaagcca gggcagaaag acatcttcta cctcacggga agcagcaaag agcagctgga 240  
gaagtctccg ttcctcgaga ggctaaccaa gaagaactac gaggtcatct tcttcaccga 300  
ccctatggac gagtacctga tgcagtacct gatggactac gaggacagga agttccagaa 360  
cgtgtccaat gagggcctga agctgggcaa ggactcgagg ctcaaggacc tcaaggagtc 420

<210> 30730  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A1

<400> 30730

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acctttctca gctccggcac ggctgaacag cacctactga agttgctacc actctcgaaa 180  
ggaagaacac agtgcagatc tgcagcgggtg agagagagag aaaacagcaa ccaagtgtag 240  
cgttacagtt acacctgctg agttgttgct ctttgcaaaa ctactgtcta gacttcgcct 300  
ggcaattagt gtactgatag cgaggtaaaa aaagttagat tatgtgttag cgacacacat 360  
cctttcacct tcttttatct ccctcgatta cta 393

<210> 30731  
<211> 438  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A10

<400> 30731

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gagtttacct tgggattact ggaaaaagga tatcatcacc tgctgatgct atgttcatag 180  
gccttggtac tcactatgta ctttctgcaa atttgggttc actcaaggag tccttgctga 240  
gtgctaactt caccaatgat cctcatagag acgttgagtc agttctgaca ggatacaaga 300

aagaaccaga gtctgaacca caactaaaaa agcttttgcc atatatcatt ttttctttca 360  
 gtcttgataa atcagtggct gaatctgtgg aagagctaaa gaaatgtagc cgaagtgggtg 420  
 atgctgcaat ggcagaat 438

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 <213> Zea mays  
 <223> unsure at all n locations  
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 atctgctgtc gtgacctcat ccagccgtgc tgtggcagtg gatcggagtt cgctccagct 180  
 ctgattatcc ccacgtccag agttacaaga agatcaagct tggttgtggc tgctgctgtg 240  
 ttgcctctctc ttgttgacc gaagagaggg aggagagaag cagctggcgt gcagacttct 300  
 actcagggtg tcttttattc tctatggtgc ttctaggata catctctctc agaagcacca 360  
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<210> 30733  
 <211> 442  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 cacgcgcaga ggggctgtt caacggcgtc gacgggctcc tgggcctcgg ccgcgagcag 180  
 ccgtcgctcg tggagcagac ggcgggcacc tacgggtggg tcttctccta ctgcctccc 240  
 acgaagccgt ccaccgcggg gtacctgacg ctgggcctgg gcgggccgtc gggcgccg 300  
 ccgggcttct ccacgacgca gctgctgccg tcgccgaacg cgccgaccta ctacgtcgtg 360

atgctgacgg ggatcagcgt cngcgggcag cagctgagcg tgcccgcgtc ggtgttcgcc 420  
ggcgggaccg ggggtggacac cg 442

<210> 30734  
<211> 426  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-047-Q1-K1-A3  
  
<400> 30734

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gcgggagcca tggccgtgat ggagaagctc aagatctttg tcgttaagga gcccgtagtc 120  
gcggcctcct gcctcatcgc tggattcggg ctctttcttc cagcagttgt ccggccaatc 180  
ctggattcat ggcagaccgc ggaacaagtt cctccacctc ttctaaatga tgtggttgca 240  
ggtgtcaccg gcaagaaaaa gtagtgaact tgcattgttt tctcatgcc aatgttgc 300  
acattttctt ccccggtgtt tttctggcga ccagattgga aggcctttcc caagagtcac 360  
ggtcttgaac tctagatggt atccgcggaa taatcattgt accttgatca tatactgcaa 420  
tgtggc 426

<210> 30735  
<211> 175  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-047-Q1-K1-A4  
  
<400> 30735

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ggaaggggga cataaaaaat ataggatacc agctaacgta cgtcgtcttg caaactctta 120  
aactctttta tatggccacc taattacaac tcaactggccg ctaaaatata acgta 175

<210> 30736  
<211> 422  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-047-Q1-K1-A5

<400> 30736

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gttcaggaag tctgagccta ttctgaggt caacaatgag cctgttaagg tggttgtcgc 120

tgacaacgtc cagcacttcg tcttcaaata tggcaaaaat gtccttattg aattctatgc 180

cccctggtgc ggacactgca agaagctggc gcccatcttg gacgaggcag ccaccactct 240

ccagagcgac gaggaagtcg tgattgctaa gatggacgct actgccaatg acgttcccag 300

tgagtttgac gtccaaggct acccgacctt gtacttcgtg accccgagcg ggaagggtgac 360

atcctacgac agcggcagga cggctgacga catcgtcgac ttcataaga agagcaagga 420

ga 422

<210> 30737

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A6

<400> 30737

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gcgtgccctc caggcgagca ccctcaaggc ctgggctggc aagggtggaga acctggagaa 120

ggctagagct gccttctctg ccaggtgcaa ggccaactct gaggctaccc tcggcaccta 180

caaggggtgat gctgccgccg acaccgagag cctccacgtc aaggactaca agtactgagt 240

tgcttctctt tgcggtgccg ttttggaact cctgcctacg agctaggttg cggagtgtgg 300

tttgctcggt agagcttatt ttccgacatc caaaaaacat gcttcctatg tgggatgatg 360

gttatcttta tatttgtatg ttaattagtc tctttgctgg taaatttcgt gtaagttggt 420

cctgccgatg gagaatcgag cagc 444

<210> 30738

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A7

<400> 30738



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 ctttccagat ttgtgtatgc ttgtagttaa atctacactg tagataaaga aatgtttgtg 120  
 gagaagtaaa aatcccttat ttggtcgtca tgggt 154

<210> 30739  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-047-Q1-K1-A9  
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 ccaatacctg ctgcaactgca tgtttatcaa aagttatcgc tcctgctcgc ggaaagtgag 180  
 cttgactggt gccgggggtgg aagtatcggt ttggactgat gcatgagtgc tgcggagggg 240  
 tttgttgttt ggttgtttgt tcggtgaccg aatcgcgagc tggacgcctg tttaatccgt 300  
 gcttatacat cggctgaagt aacagcaata agagggacaa tccgtagctc tttccg 356

<210> 30740  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-047-Q1-K1-B1  
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 ctagccaggc aagcctcctg ctccagaagc agtcaagga tcttgcaag aaccccgtag 180  
 atgggttctc cgcaggggtt gtagacgata gcaacgtctt cgagtggcag gtcaccatca 240  
 tcggccccgc cgacacccta tatgatggag gctacttcaa tgcaataatg accttcccc 300  
 agaactatcc caacagcccc ccatcagtaa gatttacttc tgggatgtgg catccgaatg 360  
 tttatccgga tgggcgtggt tgcatttcta ttcttc 396

<210> 30741

<211> 219  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-047-Q1-K1-B10  
  
 <400> 30741  
  
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 gtttgcttgg tcatgaagta ttattacttt cgttgaaacc gtgatgctat taagacttaa 180  
 ttttttttat ggaacatcga atgtaaggca tacatggtt 219

<210> 30742  
 <211> 211  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-047-Q1-K1-B11  
  
 <400> 30742  
  
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 gaaaaaaaaa aaaaaaaaaa aactaaaggt gaaaccattt atactatcaa aacttaatta 120  
 cgcatacaga acacataaaa gtaaagcaaa catggtacaa aaaaaaaatt aacagaccgc 180  
 aattgtccaa cgatctaaat gataaaacct t 211

<210> 30743  
 <211> 310  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-047-Q1-K1-B12  
  
 <400> 30743  
  
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 aaaaaaaaaa agaaaaagtt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaataa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataatac aacttaaaac aaaccctttt 180  
 aaactccctt tactaaaaat ttataacca aaatataaaa cattcctaatt ttaaaaaacc 240  
 ttctaataa taaaaaatat cccaattata aaaatcccca atatcccaac tctcaaacac 300

cctaataaaa

310

<210> 30744

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-B2

<400> 30744

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gggaggacaa ggcaagctgt ctgcttattt gtctatgttt ggtatctcaa gtcctgcgga 120

ctgtttctgt tggcacaaga gggaataaat gtgttcacgg acctgttatg cttttctctt 180

gtcatattac cttgctctaa acatTTTTga tgaagctgtc aaggtaatat attttctcta 240

aatatttagc ctaacaaaa 259

<210> 30745

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H9

<400> 30745

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atgctataat acctaacgaa agtagccatg agcggagaga ggtaaaggcg atcggctcaa 120

gcgcccgtca agaaggccac gtacaggaac tccaaagctg gcctccagtt ccctgtggga 180

aggatcgtca ggtttctcaa agccggcaag tatgccgaga gaagcggcgc ccgcgcccct 240

ggttacctcg atgccgtgct cgagtatctt gccgctgagg ttcttg 286

<210> 30746

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-047-Q1-K1-B3

<400> 30746

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atcctcttcc ggggaactga tatcaaggat ttgcaagtta agtcatcacc accacagccg 180  
ccaccaccac aagcagcttc cctgcacaat gatcctgcca taatacagtc acattattct 240  
caacctgcat caacgtcatc aagtttgctt tcagctgggg gtgcagtttt accagacttt 300  
agctcccagg cagttcaata tggggcttcag aggccaacct ttcagagtaa ccttcctctc 360  
taccaaccag ggaatactcc gtggggctct tcagtggcac ctncagcagg aaaatgctc 419

<210> 30747

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-G3

<400> 30747

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ggagctcaag gacctgcaga aggatcctcc cacctcttgc agcgcaggcc ctgttgccga 180  
agatatgttc tactggcagg cgacgattat ggngccatca gatagcccat acccctgtgg 240  
ggtaattttg ggtaactatc aactttcaac cgaactacca attcaaccaa ccaaaggtgg 300  
attcaagaac aaagggttaac aacccgattt taaccagcac cggagccttt ggcttgaaat 360  
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<210> 30748

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G4

<400> 30748

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caaaatctgt tgatgatgca aaatcctagt tacttacaac tgtgtcacat gagatcacia 180

cacctatgaa tgctctcctc agaatgctgc atatgctttt aggaacagat ctaactatga 240  
cacacaatga ttatgcacaa actgctcaaa tgtgtgccat agcattgatc actctgctga 300  
atgatgtact tgagcgatca acaattgtgg ctggaaagtt atagctt 347

<210> 30749

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G6

<400> 30749

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gcagcttgct cttcctgacc atactgaagt ttgcggtgaa tcgaaattct ctgaactcgg 180  
tgcagattca ctggacacgg ttgagattgt gatgagtctc gaggagcact tcgatattag 240  
cgtggaggag tccagcgcac aaacaatcgc cacagttgaa gacgccgcgg acctcatcga 300  
caagcttggt gctggcaaag cgtagttctg taccttctct atcgttgtcc taccactcta 360  
gggtctatccc ttgatctaag tttctatggc cttaagattt gtgattttct ccgcacttgt 420  
gttgcctatcc ccgtgtcgt 439

<210> 30750

<211> 150

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G7

<400> 30750

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agagcaaaaa actacgctgg caaaaaagga tacacctgac aaggtttgca gagactgaaa 120  
gaactcaacg agctgtttat ggatattctg 150

<210> 30751

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G8

<400> 30751

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gatggtaatg atatgttgag tttggcattc catcaacaaa gaaactgtcg cgagatgcat 180  
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tcgacctata gctatagtcc tcattcttga cgcttcaggt tcaagaaaag gaactttatg 300  
atggaaaaat ggacttcagt ctgctcaacc ccttcatgtt actgtgccgg ccgagatgtg 360  
cttggtcgct ggtggttgag atttcagatc aggagctctg gagtctggac tctggactgc 420  
agcgagccaa atcagtcacc gggt 444

<210> 30752

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-G9

<400> 30752

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cgtttcacac ctactactc cattccgcaa tatgtcattt cagctctcat cacatttgta 180  
ttttctgagg tgcttgaagg agtgaatctg tccttgctct cagagtgat gtcgtcaagg 240  
ctttcccgag ggacctaaa tgggtgactc ctttcaacag aggccgggac gttggcccgt 300  
gtagtgcag acgccaccat tactgcagcc ggttatctat gcacggacct ncttctcaat 360  
gtcactcttc tgccacctct tgtgatctgc atagtctcca tcgcagcatc actctacac 419

<210> 30753

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H1

<400> 30753

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 atacaattta cactgtatag tctgtttctg tgaaatagct gaaaagttca tgggaagatc 180  
 gtgtcaatat ttcatatata tgtatcttgt ttgacacaga acagacggag aaaaatattg 240  
 gtttcgcgca tatatgaaat ttcaaaaatt tcgcttttta gaaatttggg acaatgctga 300  
 atggctttca agaacttgcg tttcacaaaa accttcaccc tgttttgaaa atgggacccc 360  
 acctgttggg ccaaattaaa ccccgcgggg tttgggggta ccccgggggg g 411

<210> 30754

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-H10

<400> 30754

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 aatggtgcta tgccagctac agtgagggtt tcagttcctg gatgcacttc tgcgccgtgc 120  
 gcatatttgt agagagcatt cttagatacg gtctgccacc atcgttcctg tctgccgttc 180  
 ttgctccgtc taaaaagggc gagaagaaag tgaggagcat cttagaggac ctttgccgga 240  
 atgtccatag tatttattgg aaaggcgaag atgacgtggc agttgctggt ctgggaggtg 300  
 aatcagaggt ccacccctac gtctcattca ccataaactn tgtttgagca ttactggtgt 360  
 tacgccgtca agtaaatcga aacgatggaa tggttctgta cattgctagt gttac 415

<210> 30755

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H11

<400> 30755

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tttttttttt tttttttttt ttttttaaag gaattctaac atcgttcgtg tatacctttc 180  
 tttttacccc tcaagggaaa aaactaaagt tttgttcata tcccaccaa tcttttccat 240  
 tattcttggg gtgacttgat tttttaccca tcccttgaac tttgctgggc cgaaatccga 300  
 aacctttgg 309

<210> 30756  
 <211> 335  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-046-Q1-K1-H12  
 <400> 30756

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 gaccatacag cctatgagtt cttctcagaa gagtgatcta atgttagaac ctaagaacaa 120  
 tcggctaagg ttgtgtacga ttgtgatatt tgcacgaatg atggttactt agtcgtgtta 180  
 taccagggta tttgtatggt tggtcagggtg gattgcctgg ataaatctct ctgttgtaat 240  
 ggtcgagtc cgaattatgt ttgtaatggc cgtgtcccga attattgtac tgggtgtgcat 300  
 tattagttga aatgcaacag aagtgtatgt ctaaa 335

<210> 30757  
 <211> 361  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-046-Q1-K1-H2  
 <400> 30757

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 acaatttcca ctggatagtt ctgtttctgt gaaatagctg aaaagttcat gggaagtctg 180  
 tgttaatctt ttttatatat atatcttggt ggcggcagaa cagaagcagt caaatatttt 240  
 ttttgcgc atgtgaaatt tcagagatgt cgggtggtgag agataggata caatgctcgt 300  
 tgtatttcag gaacttctgt aacacgagaa cattcatcat gtgaaaaaaaa tgtaactcaa 360  
 t 361



<210> 30758  
 <211> 201  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-046-Q1-K1-H3

<400> 30758

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 tggcccccttg tgaaaggggt cgtgtcgtga ggggctgctc aaagtctcat cgagaaatng 120  
 catgccgtct caagcttctg cgtgcccttg cctgaggacc tgctgactca ggccccctgat 180  
 tatgtnncaa gctgnngtga a 201

<210> 30759  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H4

<400> 30759

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 gttctggaca actgtctact tgttaagcac taaaacggca cgcattggtgc attgatgata 120  
 tcagtatcag gcatacgaat cagactccac atatctagtg gcgggttgct cctacttgag 180  
 taccgactcg agagcctcgt gcactgggtc ggcctatatg gtactctttg atctgatgtt 240  
 ataaacctat gtggctattg ctaggtaatg ctaaaga 277

<210> 30760  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H5

<400> 30760

gccagcgcac ggctgcggcg gcttccgacg cgctgtcggc ggccgtgggc cccgaggtgt 60  
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 tcgtccccga gcacgtcgtc ggcgagggcg ggtactgcat cgtctaccgc ggctcctcg 180

ccgacggcta ccaggtcgcc gtgaagaacc tgttcaccac caggggacag gccgaccgga 240  
 agttcagggg gaaggtggag gccatcgccc gcttcgggca caggaatctg ttccgggttac 300  
 tggcctacgt gcccaagggc gcccaacggg tcttgggggc caa 343

<210> 30761  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H6

<400> 30761

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 acagaagatt aagcgaccgt ctgtttcaag aattattcat acagttactt gtgattcttt 120  
 caagcagcag ttacaaaatg tccaagttgt cttggagggt gcccagcacc cgtaggacgg 180  
 tgtccacgac gacaggggtc gcgcccagca tctgtgagc ctgcgcctcg acgctagagc 240  
 ccaagacgtc gcccacgaac ctgtacacct gagcgaggcg caggctcgcc ggagacaggg 300  
 ggaactgaac cgtctcgacg tccggcgcca gtgtaccacc atcgtcggcg caccaggccg 360  
 ggcaaccggc ggcagagcgg tgagggtgcc gggcgggcac ggcgaggacc agcttcttgt 420  
 ccgctctgag gaagtgtttc tgggcgtggc 450

<210> 30762  
 <211> 433  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-G2

<400> 30762

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 aagnttctgt atntggacaa ttggtaaaca aatctataga tcatccacat atgcctgctt 180  
 gaatacacia tagcctgact tagggcatcc cgttctgcta agggaagcca ttctgcaaaa 240  
 ataattccat gtaatgtagt aatgtacaag tagaacactt ctttcctttg aggtcacaac 300

gaagctaact taatcctctc ccccccttgt gtcaggacaa aaaacgtgca aataggcttt 360  
 gtagttgtag ttcgtttttg ctaacatgta tacggttgac cattattttt tggagaagta 420  
 tacatcaaaa gtt 433

<210> 30763  
 <211> 408  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H7

<400> 30763

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 actgccttct gttgccgtta ctctgtggc aaaaaatact cggcaaaaga ggaggccgc 120  
 agttgattcc agatcatcaa atgcaattcc ctctggaaac ggcttcacag atcaatttaa 180  
 catcattcag ggtgtcagcg acgtatcaat ttcaggcaaa gtaagaaata tccaagataa 240  
 tggcttcata gatgaagttc gcactgggca gccatccgtg ctaacagctg ctactgccaa 300  
 cggaccagga catgacaaat gtgcaaatat taccagacat ggttatgggtg gaaaccacca 360  
 gggaaggacc actgggacga cttacctttc cagaggatga accaactt 408

<210> 30764  
 <211> 377  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-H8

<400> 30764

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 catccctgtc ctcccgctcg ccggtgcgcg cgcttttcta gggtttccgc tgccccagcc 120  
 gccaaacccg ctcacctctc gtcagcggcg atggcgctcg cgtcggtgtc ggccccgggtg 180  
 gcaggggagc gggccggggg cgggaaggac gaggagctcg ccgatctggt ggggcgcctc 240  
 atggacgccc tcgctcgcta cgctgatcgc ctgcccttcg accttgatcg ccagacactt 300  
 cgttcactta ctacacttgc tgcgatctcg atcacacttc tgtttgctt gaaaaatgtt 360  
 gagagcttcc taagagc 377

<210> 30765  
 <211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-046-Q1-K1-E6  
  
 <400> 30765

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 cggccgagga ggggtgccgtg atcgcgtgcc acaccaagga cgagttcgac gcccgcatgg 120  
 ccaaggccaa ggagcagggc aagctgggtg tcacgcactt catggcccc tggtgcagtg 180  
 ggtgccagat gatggcccc gtgtacgcgg actgcgccag caagtaccct tccgcggtct 240  
 tcctcgaggt cgacgtcgac gaactgctgg aagtcgcgaa gatctacggc gtccatgtga 300  
 tgccgacctt ctgcttcac aggaacggcg agacgtcga gagctttgct accgtcgacg 360  
 aagacgagct ccgggacgcc gtcaggaagt acgcc 395

<210> 30766  
 <211> 382  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-046-Q1-K1-E7  
  
 <400> 30766

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 caaatccoga atccctctcg aatttctatt taatgttctt gttcttcccc tccgatccga 120  
 tgtccccaac tgcgtcccg tcggcgatca aacaccggat cgcggcactc gccgccgttg 180  
 aggaggaggt ttccggcgct gcttcacgag ccttgccgct agcaccatga ggaagaagct 240  
 ggacacgcgt ttccccgttc ctccgattaa aaggatcatg caaccagatg aagacgtcgg 300  
 caagattgct caagctgtac ctgtcctagt gtccaaagca ttggagctat ttctgcagga 360  
 ttaatgtgat aggacatatg at 382

<210> 30767  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E8

<400> 30767

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caccacaggc aattcgaccg ttcacagaga attgaatcat ggaaggaggg ggtagcaaca 120  
cgcccttcta ccgcggaac agcaccgcac tcgccaccaa cccttctgct gctgctgctg 180  
ctgctgctgc gaatggggca cagaaagggg acagggaggg tgccatcgat gccgagatag 240  
tgaggggtaa cgacctacca gctcatagtt cctacgccat acaccgatg aaggtgctaa 300  
acaaacttcg tcctctgctg tccatcaaga agactacatc tcaagatgag gagctcgaac 360  
ttctcttcgc aagcctttca atctaaagtg tctccttgat aagccagtat tttaaccttg 420  
ctaagggagc ccactcttc 439

<210> 30768

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E9

<400> 30768

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cttcgcgctc ggcgactcca tctgggtcct gtaccgcgcg agccaggact cggtgctgca 120  
actggcgccg gcgggcttcg cgttctgcga cctgtcgcgc cctgtggcca ggctcggcga 180  
cggcaactca ttattcaacc ttaccgcgcc cggtcgcgcc tactacgcca gcggcgcgcc 240  
gggccactgt cgcaagggcc agaagctctg ggtcgatgtg cccttgccca acgggacctg 300  
ccttcagccc tacgtcaccg acctcgacgc gctcgcgcac accctcgtcg tcgacccgaa 360  
cgacgggttc gcgtcc 376

<210> 30769

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F1

<400> 30769

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 ggcggtacgc ttatatgact actggacggc gtcttgctga caggaagagt gactagttcc 120  
 agatgaacat cacacagagc ggttctgcgc ctgagaccac agtgacaaag agcaatgact 180  
 accctgtttg acctgtagca ctgggagaat tcacatttg 219

<210> 30770  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-046-Q1-K1-F10  
 <400> 30770

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 gcagcagcgg tggaggcggc ggatctggtg gtggtggaag cggtgggcggc ggcggtatctg 120  
 gctgcggggcc gacgagcggg cgttgccccg tggacgcgct gaatctgggc gtgtgcgcca 180  
 acttgctgaa cgggctgacg aacgcgaccc tggggacgcc gtccaggacg ccgtgctgca 240  
 cgctgatcca ggggctggcg gacctggagg cggcggtgtg cctctgcacc gtctcaggg 300  
 ccaacgtcct gtgcatcaac ctcaacctgc ccatcaacct cagcctacta gtcaactact 360  
 gcggaaggcg cgtacactcg ggcttccagt gcttctgact atcacacgcg catcgatcga 420  
 tcgatctgg 429

<210> 30771  
 <211> 173  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-046-Q1-K1-F11  
 <400> 30771

tatcacactt acgatctaatt gagcttgac attacagttc aaaaaaaaaa aaaaaaaaaa 60  
 aggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaataacaa catatataaa atatctaaat ata 173

<210> 30772  
 <211> 198  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F12

<400> 30772

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

taaaataatg ttaccaagca tttaaatttt atttaattgt aaaaacccta tactaaatca 180

acttactaat tcatttaa 198

<210> 30773

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-046-Q1-K1-F2

<400> 30773

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ctcatgcatg gcaatgttga tgcacacag gtttcagcta tctatgcca gaagtctgta 120

ccaagtatat cagtgattgg actgaatgga gttctgctgc cgaatcatga tggatatatc 180

aactctgaaa atctgaatga aagcattgag aaagcgtggg ctgctcttca tctacaggag 240

acagcagcga ccttgttgac agcatcactt gctacaagaa atgctgaacc tgtgaattct 300

gctactactg ttttgtcagc tcaaggcggc tcttctactg tagacaatcc ttctgattat 360

ccagtcaatc accagatggt tctggtgcca gtgaagtngc tcattcaact gatc 414

<210> 30774

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F3

<400> 30774

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gtggcggtg tacccttttg aggcttgcac caaaagttga tgcaattata gagacccttg 120

agagcgatga acataagggt gctgctgaaa ttgtaaggaa gtgcttgagc tatccactta 180

aattgattgc aaataatgca tgcgttaatg gcagtgtggt tactgaga

228

<210> 30775

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F4

<400> 30775

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aatctggaag cagctaata gacctcgctt cgatcatgaat catttgctgg aggctaaaga 120

atagccgatg cttgcaagtc agcgtcaaaa tcccattctc ttgtgtttta ctccagaagt 180

tctacaccgc catcaattat ctgtaaagtg cgtgttaaatt ttcttgata ctacattaga 240

tgtaccctca ggttgagatc aacaataggt ctgcggaaaa tgacgagcaa actgtgccac 300

tgtctttacc cgtaaattct atggatcatg acaagttttt ttatgtacc caatatgatt 360

aaacttactt gacaaaacta aaaatccgta tcatttaaca aaaagg 406

<210> 30776

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F5

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ctgacacctg acctgtacgg gctacgatc tggctgacct ctgtcagata atgaactttc 120

gaggatcaat actgagactc tgaaacggtt accgcattcc ttgaaggcag catgcacgca 180

tgtctcccaa tgatcacgca ga 202

<210> 30777

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F6

<400> 30777



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 gggtaaataa aaaaaaaaaa aaaaaaaaaag taaatggaac tacatgttac tttattaagc 120  
 ata 123

<210> 30778  
 <211> 303  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F7

<400> 30778

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 ctgagatcaa ccagctgctc tctctcatca tcaacacctt ctactccaac aaggagatct 180  
 tcctccgcga gcttatctgc aactcttccg atgcgctgga caagatcagg ttcgagagtc 240  
 tctactgaaa gagcaacctc gatgcgcagc ctgagctttt atccacctgg tccaaaccaa 300  
 ggc 303

<210> 30779  
 <211> 434  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F8

<400> 30779

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 cacttcccgt gacaagcaaa agttgtttgt ccgattcttt ggtgtgctct acagagtgtt 180  
 caacaagatg aacttcatgc tgctgttgga cgacgattgg gagccactga tggataatta 240  
 ccggcctttg ggaataaaat ctctgaggtt cagcacattt tctcttgga atgtgtcacc 300  
 aaagatagaa gagcaaaaaa ttcagtacac cattcatacc attggaggaa gcgtaactgc 360  
 agttcatgga ttttttgtcc aacttggtgt caatgtggat acgagtgcact gggagcttca 420  
 aactctggga agac 434

<210> 30780  
<211> 211  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-F9

<400> 30780

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ggtttaattc catccgaatc tcaagattgc ataaatgtca gccatatgtt cacacgtcaa 120  
tcacttacca ctacaatcat aagaatggtg accgaatcta tgggtctgctc tacagagact 180  
tcaacatgat aaactttatg ctactgttgg a 211

<210> 30781  
<211> 201  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G1

<400> 30781

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ggcgacgcac cgacactgcc tccgactact gctcgtggac gccgacctcg ccctcgccgg 120  
cgtacctgct cgcgcggcgc tgggctgagg tcgcggccag ctgctgagcg gataggaccc 180  
gatccctgac gtgagcgact c 201

<210> 30782  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E5

<400> 30782

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ttccacttgc actgtatccg atcactaaat tggcatgtaa ccatagagat tattaggtta 120  
ctcataccac gctctgatgt ccaaccatta atgtattggt ataatgcgac gcagggtata 180  
ccatgctcgt ccattccacg gcgcaacaaa cctcgaagag ttgatctgta ttattcaagc 240

tggtgca

247

<210> 30783

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G10

<400> 30783

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tgctttatag acttccctct gtagcggtga aactttaatt gacacgatcg gattgaagca 120

aacaatgcat gtaacttagt ttaaactctt ggtctgtgta ttgcaacaat ggtgcagttc 180

attttagcat gcacgctcgg caagtttgta gttaggagtc gtgattgaaa tgtttgtctt 240

tccaatcccg gcacaggttt tcttgtaatg ctatgacgac aatctattcg gattccatgg 300

ttttgtggtg t 311

<210> 30784

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G11

<400> 30784

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ggctatgctg acgtggagga gaagctgacg ctctcccatc gctccgatca gaccgaggct 120

tatattacag gccactgcat ggtgatatat aatctatctg ctgccctgct ttggaatggc 180

atcctttagt gctgctaccg agatgttcac gacatgagtt gggctggaga ctgcacggtt 240

cagactatag ggactggtga aatcggtttag atgacgacgac gactgattgc aacgccacgc 300

cgtagccgaa ctgccatatg acggtactgc cgtgctatct gattgatcca ttgttgata 360

cgctcgcatg ggatctgaat tgtcttgat agtgacacgt caatagacta cact 414

<210> 30785

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G12

<400> 30785

cccactcggt cgcccactcg tgcgctagac cagctaaagc ctaggatgta cttgggtcca 60  
ggctatatgt acttgccctga gaagcttaga aactctaata gctcagatca gaccgaagct 120  
gacattacat gtcactgcat ggtaatgtat aatctatcta ttgcactgct ttggaattgc 180  
atcattgtat gcatcttcca agatgttcac ttcatgactt cggatggaaa cagtacggtt 240  
cacactatat ggacaggtga aatcgacttg atgacacgat aactgaatgc aacttcacgg 300  
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<210> 30786

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C7

<400> 30786

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gcacaggcaa ctatgccagt gcaactgttcc tcacagcagc taaatctaata gcattggaca 120  
aagttgaatc tgagattaaa gctattgtag aggcttccaa gaagagcccg ttgttttctc 180  
aattcataaa ggacttgtca gttccaaaag cgaccagggt gaaagctata gcccgaata 240  
attgcttccg ctgggggtttt aaaatgtacc aagaaattcc tggcttgtcc tgccggccat 300  
tgccagcctg aatttaattgg accccttggc gaaaagattg gtggattgac ctatggacct 360  
taggggggaa 369

<210> 30787

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C8

<400> 30787

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attacacttg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagt aaaaagaata ctaaacgcaa 180  
acatacaa 188

<210> 30788  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C9

<400> 30788

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ctgaacttgg tccttgagta tgtgccggag acagttcatc gagttgtgaa gcatcacaac 180  
aagatgaacc aacgcatgcc acttatttat gtgaagctgt atatgtacca gatatgtagg 240  
gcattggctt acattcatgg cactattggt gtctgccaca gagatattaa gccacaaaac 300  
cttctggtga acccacacac ccaccagctt aaactatgtg actttggcag tgcaaaagtt 360  
ctggtcaagg gggaacaaaa catatcgtac atctgctccc gatactatag ggctccagag 420  
ctcatatt 428

<210> 30789  
<211> 381  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D1

<400> 30789

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gtcggggaaa agcgggaagct gaagatccca tcaaagcttg gctatgggcc tcaaggctcg 120  
ccacctacta ttgctggtgg agcaaccctc atatttgaca cggagcttgt cgctgtcaat 180  
ggagaaccaa ccaaccaatc tgacgagctc tagattcatc atacaaatga atccattcac 240  
cttgttactc ggaactcagc agatgtcata ctatgcaaga gatgagcctt cattccctgc 300  
cacttgata gtgtcgaaaa agagccagcg ttggaaatca aaaaatccgc tgtgtataaa 360  
aaaaaaaaa aaaaaggcaa a 381

<210> 30790  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D10

<400> 30790

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gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc acctacggcg 180  
aggtcctcga gtccaagatt atcctcgatc gggagacgca gaggtcccgc ggcttcggct 240  
tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg 300  
agctggacgg ccgcaacatc accgtcaacg aggccattc ccgtgcggc cgtggaggcg 360  
gctgcggcgg ctactgtggt ggccgtggag gcggcggcta cggcgg 406

<210> 30791  
<211> 408  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D11

<400> 30791

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gcggctgtgc tgaacagcag gaagacgccg caggtggtgg ccgtgctggt ggtggtggcg 120  
ctgctggctt cgtccgcgtc ggccggcatc acctgcgggc aggtggggtc gtcgctggcg 180  
ccgtgcatcc cttacgcgac ggggagggcc agcgcgctcc cctcgtcgtg ctgcagcggc 240  
gtcaagagcc tcaacagcgc ggccgggacc agcgcggacc gccaggcggc gtgccgctgc 300  
ctcaagagcc tcgccaacag cgtcaagagc gtcaacatgg gcaccgtcgt caccatcccc 360  
ggcaagtgcg gcgtctacgt cggattcccc atcagcatgt ccaccgac 408

<210> 30792  
<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D12

<400> 30792

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gccccagctc cttctacctt ttccggcgga ggtgaacacc gcctcctcta gcgcgccacg 120  
atgaggccga tcttgatgag ggccacgagc gcccgctgac tttcctgcgc tacaaccgcg 180  
acggggacct cctgtttctac tgcgccaaag accacacccc cacggtctgg tacgccgaca 240  
acggctatcg ccttggcacc tacgctgcc acaacggctc catctgaacc tgcgacgtct 300  
gccacgactc ggcgcgctc attaccggat ccgtcgacca gaccgtcaag ctatggg 357

<210> 30793

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D4

<400> 30793

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aggagaaaca taaaaccgaa aagagtgaac catgaactag taacgctggt aggatgacaa 120  
cgcgccgttg tgtttcggct ttgggcgaca gagagtttgt agccaatggt gctgatgtgg 180  
ttcgtgggct ttgtgtatgt gcacagtttt acgtatatgt tctggtcgtg taatctatat 240  
gtgtatataa acctgtatgg gtgttgatga ccatctaaag gtgtcgaaat attcagtagt 300  
atatgtagct taaggcttaa acgggtgtgg ttataaaggc atttggcgtg tcgatgggaa 360  
gtattatcat gttattttca ggactcaaga gtataaaatg aaataaaatg tgaattcatc 420  
tgaaaaaaaa taa 433

<210> 30794

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D5

<400> 30794

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gacgggtgcag cttcaaccca cttcaaccct gtaatcaaac aagaaattag gttcaaccca 120  
 tcacttaaac caaacaagga acatgtccga ccagcccac aaaaatgggt tggtttcgac 180  
 ccaaccact tcattccgaa accaaacgca ctataagata actgagagga tcacagctac 240  
 ttgcacaaat tgtttgcagg agttcagaat gtttacttga tctgcggcta tttctgtaac 300  
 ctggctctga agtctgaatt ttg 323

<210> 30795  
 <211> 401  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D8

<400> 30795

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 gggctctgtat gagggcctgg actggctgtc cagcaacatt gcgagcaagg cttgaggcct 120  
 accttgaata tcaactgcga actgactagg agctccgggt gtatcatgga aactcaggac 180  
 agaatcgcag ttgcaacctg ttagatgtct tctaccggca ctatatatgt ttattgcttg 240  
 atgtgtactg atgttactgt tcaacgctta ttacctact atactgttgg atgttctttg 300  
 gacctgtttc attcgcacaa agaatggact ttcaatgtca tgcttaaaaa aatataatga 360  
 tttatcttga aattatcttt tacaaataca gttgattatt a 401

<210> 30796  
 <211> 414  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D9

<400> 30796

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 tccctcgcac tctcgtgat ctggagcaag gtggttgagg ccgttacgtt ggcctccttc 180  
 tcactctacc tggtcgagtc cgtgaggtcg tctcgtctcc ccaggcggcg gccccgggag 240  
 gtgggtgaccg agaggcggct tccctgggac ggccgcgggc gcgtctcgcc gatccgggag 300



gttgacgcgg cgaccgagcc gtcgcggccg agctgctgct cggattccga caggggaagc 360  
gacggccgca tgctgctcgt cgaagaaagc agcggcgctc tggacgaatc aagc 414

<210> 30797  
<211> 245  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E11

<400> 30797

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tgcgacatgc aaaaggtatt aattatgaac acaacatccc tgattaatac ctcttgcata 120  
atttacagct ccaatgctat gcgacatgca aaaatagaga gattaatcag ggatgttgcg 180  
ttcataatth tgctaacctg gtttagcagt atgttggtgg acaaaaataa tgaacctggt 240  
aaca 245

<210> 30798  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-E12

<400> 30798

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tattgtacaa atcgggttata aatgatggat ttaagctgga tttggagcat gctcaagcac 180  
ttgagaagga aagaggtcac aactattaca atggaatgac aaaggaacag ttcacggata 240  
tgcagaaatt catccagggc cggagttcta agaaaacacc atcaaagctg taggttgctg 300  
gtgacattht ctgtgggtccg tgtacgatgt acagctactg aaagcgtgtt cagtagtctg 360  
aaaaataaag atgtcgggtg ggcaatatat acagttaccg tcttctcata cttttacgta 420  
agtttatatt 430

<210> 30799  
<211> 442

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-046-Q1-K1-E2  
  
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 agatttttga catcatgcaa aacatgcaag aatgtggtca gccccccagt gatcttgtcc 120  
 aagatactgt acctgatctg gatctgagca agttgggaca gctgtctcct gagatgcttg 180  
 aatcagcacc aaattgttgc gtaatgtgaa gacaaaaaac attccacttg ggattcaatt 240  
 ccatgaagtt tcttagcctg tacgaaccgc cttccccctt tctggcttga gtagattcaa 300  
 gataatttcc atctggataa tctgtaaagc cttgcaaata tataatgggc tcaatgttct 360  
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 gtgtcgaaac cccttacggt tt 442

<210> 30800  
 <211> 217  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-046-Q1-K1-E3  
  
 <400> 30800  
  
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 ggctcgcct gggccacgga cgaccactcc cttcacaacg ctttcagcac ctacggcgag 180  
 gtcctcgagt ccaagattat cctcgatcgg gagacgc 217

<210> 30801  
 <211> 497  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-046-Q1-K1-E4  
  
 <400> 30801  
  
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ccagtagacc aaagtattat gcgatgtact catgttggtg aattattata ctcagaagg 120  
gtgttnncct tacatattaa cagctcaact ctggctgtan naatggagta gaaatctcga 180  
cttcgtcctt actgggttgg ttgggnngtg gtcctggagg gcttacgttt attcagaagg 240  
ggcctacctc gtaattcttc tgcgcaaang gagaagttgg actcaactaa ttgagaagat 300  
caaagcantt cccttctctc atttacattg ctgtgaacaa ggatggagaa acattctcca 360  
atatttcacc gaacgccgtg aatgcttgta cgtgggggtg tttccctggc aaggagatta 420  
tccagcctac gggtgtggat catgcaagtt ttatggtttg gaaagacgaa acatttgaaa 480  
tctggactcg ggggtggg 497

<210> 30802

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C6

<400> 30802

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gctctccacc gctcgcgac acgcgctgtt gagatcctcc acggcatggc catccccatt 180  
gagctatctg accgggaatc cctcgtgaag tccgcgtcca ctgctctcaa ctctaaggtc 240  
gtctcccagt actccacct tctctcgccc ctgcgcgtcg acgccgccct ctccgtgggtg 300  
gatcccgtc aattataagc tgctgaaggc cgctgggtctg tttgcgggat ccattctcct 360  
gatgcggaac ttcggtgatc tgatggccat ttagtaagct taccagcgtt gtttacttgg 420  
atcctatgga atgtgtttg 439

<210> 30803

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A5

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acctcgagct tgccaccatg gctagaggat tgaagaagca tttgaagagg ctcaatgcgc 120  
ccaagcattg gatgctggac aagcttggcg gagcttttgc tccaagcca tcttctggac 180  
ctcacaagtc tatggagtgc ctgccactga tctcatcat caggaacagg ctcaagtatg 240  
ctcttacata ccgcgaggtc atttccatcc tgatgcaacg ccatgtactt gttgatggca 300  
aggtcaggac agacaagact taccctgctg gcgttatgga tggcattttc atccccaaga 360  
ccaatgagaa ctacaggctg ctgtacgata ccaagggccg cttacggctt tacccaatca 420  
gg 422

<210> 30804  
<211> 193  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A6

<400> 30804

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gctttcgctt catggtactg agtactgacg ctgtgaagtg gaacaagtac tctctccccc 120  
aaaaaggccg gtagacccaa acatcttttc ttgcgggctg gtaaagccaa aaatttttaa 180  
atgtactcga acg 193

<210> 30805  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A8

<400> 30805

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gaagctgaag ctgcccattg caggttacc cgtcatttcc gtgtccacca gaaaggaggc 180  
gaaaccagca cgaacagcat tgcttcgatc tttgcatgga caagaggact tgcccacagg 240  
gcaaagctcg acgacaacgc tagactactc gacttcgctc tcaaactcga ggctgcttgc 300  
gttgagaccg tggagtccgg gaagatgact aaagatctgg cgattcttgt ccatggatct 360

tccagcgtca cgagaagcca ttacctgaac accgaggagt tcatcgaccc attcgttact 420  
gagctccgat c 431

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<211> 324  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-046-Q1-K1-B1  
  
<400> 30806

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ttaagtgtca ttgtacatat tgaagatcgt gtcctattga atacaatatt gttctacgga 120  
aaacaaaaat gcactactac ccaaatacaa caacgtcagg gccttcacgg acatcgtcgt 180  
caagactgcg cagaagatca aagctaataa atagacggca actaggccca atatgcctaa 240  
tgtcgagaac gaaccactct tcacggtgga gaagcccaac ctgaacacga aggaccaggg 300  
cgacacgact gttagagaca tggtt 324

<210> 30807  
<211> 370  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-046-Q1-K1-B10  
  
<400> 30807

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ggttggaagc ttgttcagct gcatcataag aatccctttt taaaaaataa aaaaaatata 120  
aaaaagaaaa aacataaaac caaatatgaa aataataata caatatataa cgcactacat 180  
aacacaaaaa cacactacta actaactaca acagatatag gatgacaaaag caatgggcag 240  
gacgatatgc tctaccaag tatccaacca attatttcta tctctaaaca cctctatatc 300  
tgaacccaaa tcctcaatga caagataact tattcaaaac gtactcgtct aaaaacctat 360  
attttacaca 370

<210> 30808  
<211> 182  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B12

<400> 30808

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaataa aaaatagaaa aagatgagaa tgaacatcac caccaataat ctaattataa 180

tt 182

<210> 30809

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B2

<400> 30809

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ccggcgggcg agcggagatg gcggagaaga agcggaggcg cggcaactcg aaggatgagg 120

tggtgacacg cgagtacact atcaacctcc acaaacgcct tcacgggatgc acctttaaga 180

agaaggcacc aaatgccatc aaggagatca ggaagttcgc tcagaaagcc atgggtacta 240

ctgatgtccg gattgacgtg aagctcaaca tgcacatctg gagcatgggt atccgcagtg 300

tgcccaagcg tgttcctggg aaaaatggcc ggaacccgga ccaataagga ggaccccaag 360

gaggaccttt acttt 375

<210> 30810

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B3

<400> 30810

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gagaaccgca aactttcaga agatttgatg aaggatgatgc aagagctagg gtgttgtaga 180

gaacagtgca aaacaatgga ggataaactg gtgctttcca tgaagagtga catgaatgag 240  
aaagtaatgg aatgcagcga ggcttgtaaa gcatccaacc aaattgtgga gaaaggagga 300  
accattcctg gtgctgtgcg tgaaaatgag ctcgacaaac aactatcggt gattactgaa 360  
gagcgcaatt gtttactctt tgagacacaa cagatgagat ccatggtc 408

<210> 30811  
<211> 305  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-046-Q1-K1-B4  
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ctttcttcgcc ttcgccgacg catgcggctg caggtgcggc ggatcctgcc ctagtccagg 180  
cggcgggtggc ggtggcgggtg gaggatctgg tgggtggtggt ggtggaagcg ggtgggggtg 240  
ggagtggagg ggtgggatcg ggtggtggga gtggagggcg gggatctggt ggaggcggaa 300  
gcagc 305

<210> 30812  
<211> 127  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-046-Q1-K1-B6  
<400> 30812

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aaggaaaaga ccaaataaaa acaataaaaa aaaattaaca aactatataa ctatatctta 120  
attatat 127

<210> 30813  
<211> 235  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-046-Q1-K1-B7

<400> 30813

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ctatgtttgc tgttttgtaa ggtgaatacc gatgctgttc cattactagg atctatactt 180

ggccaaaaca aatgtcta atctgaggtttc gtaaaaaaaaa aaaataatag aatat 235

<210> 30814

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B8

<400> 30814

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ggcgactctg accgtcgctt gcgttgtctc actctggcct agcatttccg gtattttcac 180

gccgagcgac tatcttgcca atgaggttgc cgctgcttcc gaggtatccg gctagaagtt 240

ctggagactg ccgctggatg atagctactg gtagtctatg aagtctggca tgtctgatat 300

gttcaacact gccgtcaggc ttttatgttc tatttacctc cgtctgttcc tgaacctttt 360

cttctacta 369

<210> 30815

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-B9

<400> 30815

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gggaagaagg tcctactgtg gtggcttcgt gttgaagcac gggctgatag caagtttctt 120

gaaggggtgg taattgagcc acctttggaa gtcgtcgtcc ctgcaaagcg cactccatgg 180

cctgaaacaa ccaccgagct gccagccgag ttattggatg acaagcaaga gcaggaggat 240

aggcgcttgt caagagccaa caaatcatct cggccccgag gcaccacgaa gcggaagggc 300



gaccctcaag gacaagataa ctgatgcaga acgtactggc cttgtgatgt atatcttaca 360  
 ccctgcaaaa acacagtagc aagcatatcc tgtaaatctg gcggtgtctg ttttaattttt 420  
 cttttctttt 429

<210> 30816

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C11

<400> 30816

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 gtggcgctgg atgtaatcta gccttttgta gtcatttaag gcacccctca tgggtagagg 180  
 tgtctccttg gtatcaacat ccccgattcc gttctccgtg atgtagatag gtgggtttcc 240  
 gtatttggtc ttcgatgatca taaggagatc cttcaagccc tcaggggtaca tgtagatcca 300  
 tggatttccc ataggaggac caatgggctt cccgtcaggc ccgttaactt cttgactggc 360  
 gtaggcgtcg tcagtgttga gcacaggtga gtagtttggg gagatatcga tgtttttgga 420  
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<210> 30817

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-C12

<400> 30817

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 atctggtgct atttgcagca gttcctggct ggctggccgg actttgtaaa gaaccgcctg 180  
 agaactatgg cggccagttc cctgcacagt tgccatgcat tcttctcact catgctttct 240  
 gcgtgcttca aattagggtc acgcactcac ggacctgcgg cggccactcc ttttcatccc 300  
 cttcttccca tggatgggtg gttgggttca gtgcgtggct acctgcgact tgccaacaat 360

gaagagaaag tcagaagact tcacacacaa gagtctctcc gggaaagaga gaaagggatg 420  
gcgtttg 427

<210> 30818  
<211> 285  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-046-Q1-K1-C2  
  
<400> 30818

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accctaaatt ctactgcgtc atccacaccc acaaggaaag ctacctgcac tatggctatg 180  
cctattcaat taggcgagcg accaaaaatg ctctagagcg gtgtcacttc tatcaaagct 240  
acatctgtgc tccctacctc catgcgctaa actgtctctc atcaa 285

<210> 30819  
<211> 360  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-046-Q1-K1-C3  
  
<400> 30819

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atgcagggca tcaccaagcc ggcgatccgg aggttggcta ggagggggcg cgtcaagcgc 120  
atcttcgggc tcatctacga ggagaccgc ggtgtgtctca agatctttct ggagaacgct 180  
attcgtgacg cgtcaccta caccgagcac gcccgccgca agaccgtcac cgccatggat 240  
gtcgtctacg cgctcaaacy acagggccgc accctctacg gcttcggcgg ctaggtcgct 300  
tactcatctg gtggcgaact gcatgtgttg tcgccggtgg ttgtgttggtg tgccctaatta 360

<210> 30820  
<211> 449  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3067-046-Q1-K1-A4

<400> 30820

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ggagtgggtga tatgacaaac gaccggggga gaatgaggag cagatcacgt tctccaacaa 120

ggcatggcta tggaagatct ggaagtccaa atcattagct gaatatttag atagttttat 180

tcacagttag gactcatgag ctctgttga accctacagt cttgcttttt acatgagaaa 240

aaaaaaattc tcagttaaac tcgtaaggcc ggtactgaac ttaatgtatg gataataatg 300

ttaccagatt accagtctat agcaggaaaa ccttgacctt caaggtttgg ggtacacaat 360

ttttttaatt gccttgagaa cctttgttaa aaacttaatt ctggtctttg gcctaaaatt 420

ttttcaattc ttaaggcaag tattttttt 449

<210> 30821

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H11

<400> 30821

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cttgtcacca tattctcggc cccaattat tgtggtgaat ttgataatgc tgggtgcaatg 120

atgagtgtcg atgaaacttt gatgtgctca ttccaaattc tgaaacctgc tgagagaaaa 180

aacaaattta tggggtccaa caaatgtga tagtgaaagc cattttgctt ccagcagctc 240

tagcctctta aggttctcct gtggatgcat cgagacaaca gcatgctggc gccagtttg 300

agggcagcat tgggtacta tcagagaaac caaataatcc catacctaac tgttcatctg 360

gaagttactc atcatgacaa gtgcctgaaa ttttctctt ttctgttac cttgtgtcag 420

aacattatgt agctgtagat atat 444

<210> 30822

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H12

<400> 30822

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 cacggtgtct cctgtgattc tggaatcaac catccaaacc tatatttcag tgaaagccag 180  
 aaagttctgc gggccaaaaa ccagaaaatg gagagccaat cagcaacctt aattgtattg 240  
 cagctggaga aactatgcat cttcaaaaat cttaccagca ggtaagcact gaagcaatat 300  
 tcatecttga agccaattat gttatcatta ctgattgttg accattggcg tctacctgga 360  
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<210> 30823

<211> 374

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-H2

<400> 30823

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 tctgccaatc aatcattttc ttttgctttc ttcaataaac atttattggc aagacagatt 180  
 agcatgaatg ttttgttaca ctttttttta ctgcttgacag tattttctac cttttgaaat 240  
 tatgctntat agttataaac taaacatgta tttatgtaac aatttagttt tccagaaaca 300  
 gttttccaat ctatttcaga acatgatctt gtaccttgtg aagttttttg ttgttgcttg 360  
 tgcagactct gatg 374

<210> 30824

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H3

<400> 30824

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 aagcctcaga tagcagctgt cggctcatgc tgcttggtcg gtgtaatttg tgggtggcatg 180

ctttatgttg ccaatgttgg ggattccccgt gtcgttttag gaaaacatgt taaggccact 240  
ggagaagttt tggctgtcca actgtcagca gaacataatg ttagtattgc gtccgtgaga 300  
aaagaactgc agtcaatgca cccagaagat aggcacattg ttgtttctcaa gcacaatgtt 360  
tggcgtgtta aaggactaat tcaggtttgt agatcaattg gtgatgcata tctcaaaaag 420  
caagagttca acaaggaacc cc 442

<210> 30825

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-H4

<400> 30825

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tcttgcccg ctggttggtg ggatccggcg gacagcgtcg ccaggctgtg tccccccac 120  
cctccagcca gcctgactcg gggctctcggg caggttccgc cgcacgtgtg cgtttcttcc 180  
ctttcccggt tccccggttc agttcagctt cggttggctc gccgtactcg ggtttgttcc 240  
tcgcctcgct tcgcttnctt cctccgcagt cctcgtctcg aattcgctcg cgggtgggaga 300  
aatcggnngc cgaggatgac cgtgatcgac atnctnaccg ggggtggacgc gatctgccag 360  
aagtacgaca gg 372

<210> 30826

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H5

<400> 30826

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cactaccacc ccgtgtccgc ggacacttac caagacctcg aggtctggctt ctccggccac 120  
tcctcctccc ctctgaagcc cgcggcctcg ccgaggcggc ccggccgcat gttctgcgac 180  
ccctgcgacg acggcgacga gctccacggc cgccaccact acctcgacat ctgcttccgg 240

tgccgtaaac tcctgtccgg caacagagac atcttcatgt acagaggtga cctgccgttc 300  
 tgcagcgagg agtgccggca ggagcagatc gagatcgacg aggcgagggga gcagcggctg 360  
 aagcagacgg ggcgggccga gcagcagcgg cagcggcagc agaagcagag ccccagagg 420  
 atccccatct gggcgtggta ggatgag 447

<210> 30827

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-H6

<400> 30827

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 cccaccgcct gcgcccgcga caacagcgta gtgtagtgta gttccggaga gggttgggga 120  
 gagtagtagt gatccgcaat gtcgacggag gaggtctgtg tggctgacgt cccggtgacc 180  
 gaggtgccag cggaggtccc ggcgggccag gtggccgagg cgccaaggc gaagaaggcg 240  
 cccaaggaga agaaggcgcc taaggagaag aagccgtccg cggcgaagaa gccggcgggcg 300  
 caccctccct acgctgagat gattgtagag gcgatcgctg ccctcaagga gaggaaggng 360  
 tcgagctcgg tggccatcag caagtacgtc gaggggaagc acg 403

<210> 30828

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H8

<400> 30828

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 gaccaacctc ggcgagaagc tgaccgacga ggaggtcgat gagatgatcc gcgaggccga 120  
 cgtccatggc gatggccata tcaactacga ggagtctgtc aaggatcatga tggccaagtg 180  
 agtaaagcct gcggtaacgg tatagtaccc ctcgggaatc gaaggaggaa accaaaccgt 240  
 gcatcgcata ttagaaaggc aatgcaggtc ttgtttcctt cgttttcccc atgaagaaac 300  
 cgtactagct gtagctgctg aacgtttgag tccccctgct gccaccctta tctccatttg 360

tgtcatcgaa actccgtgct tcccctgctg tgtgaatctg tacggctttg cgtgttctgg 420  
acactga 427

<210> 30829  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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agctgctgaa tcagctgagc gagctgcac agcagcccgt gctgctgcaa accttgacaca 180  
actgcgcatt tcagacctga agaagaattc caaggtttat agcaattacg gtgatagcgt 240  
ccaaaaggaa agccatcatc agactgaggg gacacagaaa ccggtatttg atcaccagga 300  
ctccttcacc aatgatacac atgactatgt gtcacccat gtgccgcaga ggctcgatc 360  
tttggaggac gatccatatt tctcgtatcc caacttggtc tcagcgccaa agccctgata 420  
gcgggaacta gtgggctgca ag 442

<210> 30830  
<211> 305  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A1

<400> 30830

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ctgagcacgt actactgcag ctacccgtcc aagcgcatt acgtatccgc tcggggcagg 180  
tgctactaca tcagctccgg ccgcagctac tacggacgag gcagcgccta catcgtcttc 240  
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cgga 305

<210> 30831  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-046-Q1-K1-A10  
  
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 gccacgtctt ctacacgcac gaccgctacg tgttccacgc caagcgcacc gacggcatca 300  
 ccgggctctg catggccgac gacgccgccg gaagacggat tcccttcgca tttttggagg 360  
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<210> 30832  
 <211> 423  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-046-Q1-K1-A11  
  
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 cccgcagctg acgcctttct actacatcgc agtcggggcc actgatgcct ctgctctgca 180  
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 acgcatccca ggtgtggaag aagtacgagt gccagagcac cagcgtctca ggaggagccg 300  
 agatctgctc gactgtgggg cgcgtcacc ccagcatcta ctggcagatg accgcggctc 360  
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 cct 423

<210> 30833  
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 <212> DNA



<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A12

<400> 30833

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aaaaaaaaaa aggagtcaat cgccggcgac gggtaggggt gtacgcttga ggcgatcggc 120

agagaagacc gagaccgacg gctccagtgc cgctgtcact gccagtctgc cacagctagc 180

cgcctagctt gatccgcctt ttgtgctgtg cggatatgag ggccgcgcag gtcgatccgt 240

tccccgcggc gccgcccaag tcgcggtga agcgctctt cgagcgccag ctgctgcggg 300

tctcgccggc cgagcgctc ccgtcggcgc ctcccggtgg cggggagaag gatgagctgc 360

cggagcctag ctgctgtgc ctggacggca tggtagcgag ctctctggag gacggcggcg 420

gcggcgag 429

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<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A2

<400> 30834

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<210> 30835

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-A3

<400> 30835

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<210> 30836

<211> 282

<212> DNA

<213> Zea mays

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<400> 30836

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaatcaat tttaaaggat 180

caaaaaatta aaaaaacaat aaaaagaagg taaaaaaaaa taaatcgggt aaaacaaatt 240

aaataacctg gccagtgtta aaaaaacttc atgactggaa aa 282

<210> 30837

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F4

<400> 30837

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gctgaggaca gttacaatgt agaagacagt acatatgaga gtacatcgat tgacgcagcg 180

actgacgaaa ctgctgagca gaacgtggat gacgcaattt ctgacgcagc 230

<210> 30838

<211> 427

<212> DNA

<213> Zea mays

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ttacgcgggt ttcggcccca gaaacaacta gaaggtccat cgcaaatcca acctgcaaag 120

gctgaagacg aatacgattt cttgcacgac ggcagaaggc aggccgaagc caggctacag 180

agagcacttg cccgggtgca ctctatgtca cagtaccag aagcgagaga gcagtaccac 240

aggcttacia cctgcgttgc tgaaatgaaa cagtccagga tgatgcagga tgagatgcta 300

agccaggcgg ctggtggtgc ggacgatttc atggctggac tggaggactt gatctgcata 360

gatgatgcc cgccccgatg tctgccattc ggtgaagctg agccttttta catcagatag 420

gcagggga

427

<210> 30839

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F6

<400> 30839

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ccacggccgc agagtcgcag gatgactctt tcttcaaggc atcccgcgaa ggattagcct 300

atggaaggtt ttacagtgtc attggtggaa gcagtcgtct tgagaagaac atattgaaaa 360

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<210> 30840

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-F9

<400> 30840

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ttgtggcatc gtcttgtaac aaactgcagg agttgcgggt tttcccttct gctcctttcg 180

aagcagctga gcaggtctct ttgactgaaa gaggtcttgt tgatgtatct gccagttgcc 240

caatgctgga gtcagtctc tacttttgca gacggatgac caacgaggcc cttattacca 300

tcgcgaagaa ccggccaac ttcacttgct tccgcctatg catcattgag cctcgcacac 360

cagattacat tacacaccag cctcttgatg cangttttag tgccattgtg gaatcatgc 419

<210> 30841

<211> 423

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-045-Q1-K1-G1  
  
 <400> 30841  
  
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 gatgatggtt caggaagtgg aaaggagtgc aagtaccttg gcaacatttg atgaatcaac 180  
 aagtgttctc cggaaggctg aagggtgaata tcaaggacac cgctctttgc taatgcgtac 240  
 ccgtggtttg ctctccacga tgcaacagca agatgttctt gataggatca tcttgaccat 300  
 cggctttatc attttctcct tggcgggttct ttatgttgtc tcaagacgta ttggtctatt 360  
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<210> 30842  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 caaaggatga agaatttgtc cgaagggtggc agctggcttg tgaagggaat atagctcacg 240  
 ttgtggcgat gccagtgtc aacattgaca agctagacta tttcctgaat gagttagtgg 300  
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<210> 30843  
 <211> 267  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G11

<400> 30843

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ccgacctccg ggccgacagc atccgcacgc agacggccgc cctaggacta caccacccgc 180

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gcgacgacag ctaccgtgga caccagc 267

<210> 30844

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G12

<400> 30844

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tggaacatca tctaccctgt ctacctcaac tccaagaaga cggtcgccga gggccgcgcg 180

atcgccgctg ccaaggcctg cccggacccc acctgcatcg agatcgccga ctgctgttcg 240

cacctcaaga tccccacgc catcgagttg gataaggcgt accctcgga tttcttccag 300

gtggggaggg tcagggtgca gcttaagaaa gatgacggct ccccggtcaa tctgcgatt 360

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ac 422

<210> 30845

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G2

<400> 30845

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tggagatgat ggatatacag gacgctgtca atgatcccag tgatgctcaa accctggaga 120  
ccatccaatc tcagggttaac gcaaagctct gaaacatgat gccgattcct tccaggaggc 180  
atactacaag aaggatcttg accgcgcata agaaaccaca caaagaatga cgtactatga 240  
acgagcacta gaagaaacag tctagaagct ctgagcctgt catctactgt tacacctgcc 300  
ataagtggta aggcattgtat cttttcctac gttcctagta catcctgctg tagctgacgc 360  
a 361

<210> 30846  
<211> 389  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G3

<400> 30846

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acgcgtgcgc gcgcgccac gagcgagcga tgctccct cgcgcgcgc gcctccatcc 180  
tgctctctct ccactacgtg gccgctccc acctctgt ggcgcgcc gcggccacat 240  
tgccggaccc cgcgccgctc gaccggcac tggctcgcac cccggtgcag cccgccgccg 300  
cgttccggg gggcacgatc ccggcgttcc ccgcgcagtc ggactcgtg gcgggttct 360  
cgtccacgtg cccgcttcgc ctttccccg 389

<210> 30847  
<211> 401  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G4

<400> 30847

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atttctccga agaagccgac ttcgatagca gaggtggcga agcagcgcga gctgagcggc 120  
acacttctga gcgaggacga cagcaagatg aagaagcaga tatcggaacct gaaatccaag 180  
gagctgagcg gccacgacat ctttgctcct ccggaagacc caccggccacg caactcagag 240

aacggctcga cctcgagac cccgggcaaa aatgcacacg taagcaactt caagttcggc 300  
gaggccgacg aggacggcat ggtgaagacc gcgaagaaga tccccacaaa gaaaatcacc 360  
gacctcgcgg gcaatatctt caaaggcgac gagaccccc c 401

<210> 30848  
<211> 108  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G5

<400> 30848

gtggatgcgg tttattcaaa aattttaaat ataaaaacaa aaaaaaaaaa aaaaaaaaaa 60  
ggaaaaataa aaaaaagggc ggtcgatata aaaagaatgg ggggtcct 108

<210> 30849  
<211> 353  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G6

<400> 30849

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cgccggctcg acgcaggagg aggaaggcca cgcgccacgg cacaggccgg cagggcaggg 120  
cagagagccc atccaaccgg ctgctgcgctc tttttacctt cgtttggtga cgaaaccgaa 180  
tggcctccct cctcctgac tccgaaagat ggagacggag ggtttggttt gtgcgtgagt 240  
ttttgcacgg ttgcacgagt gaaatggtgt gcgtgctgat cgccgtgtaa accctgtcga 300  
tacggtatga aacaagcgag aggcctaaac aagtcctctc cgaatttctc gtc 353

<210> 30850  
<211> 444  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G7

<400> 30850

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aacaggggtcc cttcttattc agaccaaacg tcggaagaaa tcatgaagat agttcaagat 120  
 gcaaggacca tgccgaaatc atccagatca ggctatgggt ggagcagtga gtattcggat 180  
 gaagaagaag agaaggaaga ggaacacaga ccagaggagc atgaggaaga ggaagatgaa 240  
 tacgatagga gggatgaagga ggtccatgca agcggagaaac tccgtatgga cgctcttcac 300  
 atatgaaagc tagtggaaga gaaagttgca tgtagataac tgggttggtg cggatctgaa 360  
 ggatccagtg ggatgtatgc agttttggct tgagaacatg gtagtctggt gtctcgggtg 420  
 attaaattat gttacatgaa aatt 444

<210> 30851

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G8

<400> 30851

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 gggcggacgc gtgcacgacg ctgacgacct gcgcgcgacc gaacgaccct ccgtcgccac 120  
 catgacgctg atcgacgggg aggacttcca gcatatcctg cgtaagctga acaccaacgt 180  
 acgataggaa gcagaagatc atgttcgaca tgacctcaat gaaggggtgc gggcgccgct 240  
 tctgcaacat cgctgcaag aaggccgaca tcgacatgaa caagagggcc ggcgagctga 300  
 cacctgatga gctggagcgc ctgatgacag acgaggccaa ccctaggcag atcaaggtgc 360  
 cggactggtt cctcaacatg aagaaagcat acaag 395

<210> 30852

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-G9

<400> 30852

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 cgccttcttc ctctaccgt ccgccccggc cgcgcgcgtc gccgacctcc gtgtcgacag 120  
 cttccgcgcg cagccgcccg tcctcggcct cggcctcgcg ctgcgctcc gcgtcagcaa 180



ccccggcttc gtctctccgc tccgctaccg cgcggtctcc gccgccgtct cctaccgcgg 240  
acacctgctc ggggccgcca aagcgtggcc cgggtccggc gagcttgccg ccagggatga 300  
ggtctatgcg gatgctgatg tgtgggtgga cgccgggaag gtgctggatg acgtgatcga 360  
gctcatcggg gacgtggccg cgggtgcagt gccgc 395

<210> 30853

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-F3

<400> 30853

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gatcagttat tcacgtacac agcaggtaca taatatggac atcatcacac agtgc tcaaa 120  
atagtataaa aggggaataa tggttgatta catcatacgt ctgagacgtc catatagttc 180  
ttacaataaa tcaaagtgcg gaaaagaaac gtagataatc gcggncttca caggcagccg 240  
actggggggtt gccgctaacc cacacctaga actcgtcgta gtcttggaac tcttggaagt 300  
ctctccaca gttcatctt cgctgagca gtggttgcaa tgctgacaac ctggggggggg 360  
ggggtttggt gt 372

<210> 30854

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D9

<400> 30854

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acaatttcag gaaatccctc tggatctgaa gatgattgag gcggaaaagg ctggatttga 120  
gatcctgaaa tctactatgg tagagaagct cccaatgat ctggaaggaa tggagtcac 180  
gatggggaag ctttacattc ttatcgatga gatctacaaa tacgtcgatg atgttggtgga 240  
aggacgcgtg gcacccgaca acagaattgg aaggttcatc tctgattctt ttgcttcggg 300  
gccgaaattg tccccggctg ctttcgataa gcttttcaat gacaagattc aggataacct 360

tgcgctggta tacctgtcaa gcacacaag gacacaaatc agcatcgccg agaagttgaa 420  
 cactgctgct caagtg 436

<210> 30855  
 <211> 423  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E1

<400> 30855

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 cacaatattc attcgaacca gttctcggta acggaacatt ttagggatgg aaatgttcgt 120  
 ccgaaacccc aacctggagt ttttttcttc tatgatttct cacctataaa ggtgatattc 180  
 acagaagaaa atagatctct actccactac ctgacaaacc tttgtgctat agtgggaggt 240  
 gtgttcactg tctcgggtat cgttgactcg gttatatacc acggacagaa ggcactcaag 300  
 aagaaaatgg agctaggtaa atacagatga tcaacatcga ccttgtactg gccccatcgt 360  
 ttccaagttt tgtggcatgt aaggagggga tatgcctgct aaatacgaca agatgccact 420  
 tac 423

<210> 30856  
 <211> 446  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E10

<400> 30856

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 tgcctctcgt ttctcttttc aataatcaag atgagccgtg gtggtagtgc cgggtggtggt 120  
 caaagtcttc tgggttatct ctttggaagc ggtgagcccc ccaaaccagc agtggcacca 180  
 gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc ggccaagcag 240  
 gttgctgctg gggttaccag ccaaaccaat aactaccaca gggctgatgg tcagaacact 300  
 ggcaacttcc ttacggaccg tccctcaacc aaggccacg ctgctcctgg cgggtggctct 360  
 tccctgggct acctgttcgg tggcaactga tgcccgtgct ggtgcgctca ccaaagttat 420

ccctccctgc ctgctgcgtg ctatgt

446

<210> 30857

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E11

<400> 30857

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ttcttgcatt gatggcgacc gaggtggctg agactcccg cccgttggcg gagggggtcc 120  
ccgagacccc cgcggaggca ccggcggcgc ccgccgccga ggccaagcct accaaggcca 180  
agaaggcctc tgcgccaag aagcgtgcc aaccgaccca cccgccgtac gccgagatga 240  
tctcggaggc tgtcacgtcg ctcaaggagc ggacggggtc cagccagtac gcgatcgcca 300  
agtctgtcga ggacaagcac aaggacaagc tcccgcccaa ctccgcaag ctctgtctcg 360  
gccagctcaa gaagctcgtc gccggcggca agctcaccaa ggtgaagaac tctacaagc 420  
tgcccgcacg cgccc 435

<210> 30858

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E12

<400> 30858

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gcttcgtcgg tcgtttcgcc agccgccagg tcttcgtcgg cccatcccc ggtcttcgtc 120  
cttcaatcct ccggcgacga gcaccacca gaggtggga actccaaaga ggaacagggt 180  
ccatggctgg aggcgcagga aatggttcga acgaggcgt gcaggcaaag gggagtgggg 240  
gtgatagctc cgccgccaag ccgctgcccc cttgctcgt caaggcgaga gcggcggcgc 300  
ccgagtctga ggccaagtgc catgccaccg tggtttcggg atggttcacc gagccacgat 360  
cacactgcgg taaagccagc aaggttcagt attacataa cccaatgtgg ccaggagagg 420  
ccatttcctt gaaagtggag aa 442

<210> 30859  
 <211> 271  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-045-Q1-K1-E2  
  
 <400> 30859  
  
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 caaacgcta caatgtgtgc tttctagctg cattaagctg cttactacga gtatttgggc 120  
 tgtggctttc tttttcatgt atctcaccaa atcgttattg ttgtgagagc tatactacac 180  
 ggtggtatca agagtatcac aatgcccaac aggcgatgga ttgagctttc ctaatttttt 240  
 catgataaat taagttctat tccctccgtc c 271

<210> 30860  
 <211> 413  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-045-Q1-K1-E3  
  
 <400> 30860  
  
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 gtcgaccct gcagtttgcg tagaggagaa gctgaaggag ctgcaaaaca aactggacgc 120  
 catgtctttg aagcagcccg ggcagacga actttaaaaa ctttagaata ttccagcgtg 180  
 aacataaaga agatgtcacc aggaggcata gctctgacag ttacatccat aacatgatag 240  
 gcatggaagt caatgaggta tatggacaga aacgggccaa gcgcgagaaa tgagaatgta 300  
 gagtttaggt cgcctaccag gctatattag ctgcgataga acattttttt tagctgaaat 360  
 ttgatgttgc aattttccag actcatctga tggaatatat agtaagaaac agt 413

<210> 30861  
 <211> 391  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-045-Q1-K1-E4

<400> 30861

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cagcagcaag tcgtcgtcgt cctcgagctc ggcgcagcgg gcagctgccg cactgctcgt 120

ggcgcgtcgtc gtggcggtgt ccgtcctggt ggtgggcgcg gcggcggtgt gcgacatgag 180

caacgagcag ttcatgtcgt gccagcccg cgcggccaag acgacggacc cgtcggccgc 240

gccgtcgcag gcgtgctgcg acgcgctggc ggtggcggac ctcaagtgcc tgtgaggcta 300

caagaactcg ccgtggatgg gcgtctacaa catcgacccc aagcgcgcca tggagctttc 360

ggccaagtgc ggccttgcca cgcgggccga c 391

<210> 30862

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E6

<400> 30862

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catcgaagaa cccatgccaa gaattcttcc atcttcccaa ctgaacaatc atcggaaaat 120

tcggcatgat tttgtacttt caaagaaaga gtttgttgat tcttattggg aaactactaga 180

gtgttggttat ttaacagctg gtttggctga cccgttaagt gccttccctg gcagttctgt 240

cccggagggtt tgtctcatct gctgtacatc attgatgcat aggattatcg catacgttga 300

ataaatgtac ttagcgctg tttggttgct ccccaactta cataaggtag cttctgggca 360

tgggcagtac ggtgagaaac a 381

<210> 30863

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E7

<400> 30863

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agccaactga tgaggaacca tttgctccaa ataatccaaa aggttttgtg gggaaagctc 180  
 ttggacagcc gtgcctgaaa aggtctgtac gggttgggga gacaggcttc atagaggttg 240  
 ctgcttacct actcgactat ggtcactttg caaatgttcc taccaccatg ctgggtccaga 300  
 tatcacacac aatcttcaat gtgaactac 329

<210> 30864

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-E8

<400> 30864

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 ttctaaagaa aatcaagatg cagtttccaa aatgattgat cagaatcaac attcaaaaga 120  
 agaccagctt aaaaccttgg aaaagatctc cggcgctgat gcagtgggga ttgccaagga 180  
 cagagataat ttgaaatctg tttttatcac tgagactgag caccaagatc agaagccaaa 240  
 tgctagagga cgaaaaggat ggtacaaagg tcaaggtcag atgcagcaaa atgcaaacia 300  
 acaaggcagt tgtggttccg agtcattaaa caagcctatt cctggaccga gaatgccaga 360  
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<210> 30865

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F1

<400> 30865

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 ttccatttga tgttttgtcc agaatccttt ctgcacacc taagctagag gatttaggca 120  
 caggatcctt tttacaaggc aatgaccctg ctgcatatgc cagtttatgt agagctcttg 180  
 agaactgcac ttactgaag agtatatctg gtttttggga tgctccaggc ttttatgttc 240  
 aaggaatttt gtcaaattgc aagatcagaa atcttacatg cttgaatctc agctatgcta 300  
 cattgattca gagtaccag cttatcggtg ttattcgtca ttgtaagaag ctccatgtct 360

tatgggtggtt agatcacatt ggtga

385

<210> 30866

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-F10

<400> 30866

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cacacgcata gacttgataa caaactgcta gagtagcggg tgctgcttta tgctgctttc 180

taagcaactg agcagggtgtt tgtgactgaa agagggtctcg ttgatcaatc tgacagctgc 240

ccaatgctgg agtcaagcct ctacttatgc agacggatga ccaacgagcg cccttattac 300

catcacgcag aaccgtacga acttcacttg ctctcgacta tgca 344

<210> 30867

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F11

<400> 30867

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agcacttcga gggcgtgaag cagcactggg cgagcaactt cgccttcctc gactattaca 120

agaaggctcta cggccgcgcc gagccccctcc ccaagtgggtc cgacgccgac gtcgacgagt 180

tcacgcctc cgaccgggtc tacggggccc agtcaaggc cctgcgggag tcgaggaagt 240

tcgcgcttgt cggggccttc gccggcgccg cccacctcgg cggcgtcgcg ctcaagtact 300

ccaaggcgcc gcacggcggtc gtgctggcga ccgggttcgg ggcgatcacg ggcgccgtgc 360

tgggggtccga ggtggcggaa cactggtacc agtctacaa gatggacaaa gcagggg 417

<210> 30868

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F12

<400> 30868

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ccatattccg gatccagtgt caagttgaaa acaaatttag agattttttg ttgtcaaaga 120  
actttgttgg gatccacacc ccaaaattga tttctggatc tagcgaagg ggtgcagctg 180  
tattcaagct tctgtacaac ggtcaacctg cttgtttggc acaatcccct cagttgtaca 240  
agcaaattggc tatctctggt ggttttgagc gagtatttga ggctcgccct gtgttttagag 300  
cagaaaattc aaacacacac aggcatttat gcgagttcgt tggctctgat gctgaaatgg 360  
agattaagga gcatcatttt gaggtctgtg acattataga tggcctattc gtatcaatat 420  
ttaaacactt gtctgaaaac 440

<210> 30869

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F2

<400> 30869

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cttgcgatgt caccggcagc atccgccgcc gaaaccatcg tcgtcgcaat cgcaagcgtc 180  
ccgagccagc agcagagcag ccaccgcgcc gcggcgccgt ccgtcccgtc gtccctacgcc 240  
gtctgggaga aggagcggta aggcgtctgc agctttacga cgtcgtcgtc gtcgtcgtct 300  
gccacctacc tactgctgct gctgctgcaa ggggaaagta aaaggaacgg aaagggggaa 360  
ggca 364

<210> 30870

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D8

<400> 30870



attaaaaaaaa taaattttaa aatttttgata ataaaaacaaa aaaaaaaaaaaa aaaagagaaa 60  
 ggtaaattaa tgacagcgca gtgcgctgaa taaagcaaaa aacatacggg tggcagggct 120  
 ggggctttcc tgctcaggta ccggatcttg ctgctattgg agcgagtgct atgctcctcg 180  
 attgtattac 190

<210> 30871  
 <211> 198  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C2

<400> 30871

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 gctcccgttg gacggcctga ttggttactt tgccctgttg actgtttgag aacgtaccgc 120  
 ccagggtttac ttatacttac tgctttttga cgggtactgta catacagttc gacaatttat 180  
 ttattggcag ttcaattc 198

<210> 30872  
 <211> 438  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-045-Q1-K1-C3

<400> 30872

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 ccggccgagg gcggcgcgac cggacaacca gcgtgagcgc gaccggcgac atgactcgcg 180  
 gcaaccagcg tgaccgcgac cgtgagcgcg cggcgggcgc gaagcccaac gccagaact 240  
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<210> 30873  
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 <212> DNA  
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<223> Clone ID: LIB3067-045-Q1-K1-C4

<400> 30873

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caagcccaag cgccctccct ccgcttactt cgtctacatg tctgaattca ggcaggagta 180
ccaggcgcag caccctagca acaagagcgt tgcggccgtg agcaaggcag cacgggaaaa 240
gtggcgctct atgtcagagc aagagaagca accctatgtg gaccaagctg ggcagaagag 300
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agggcaatac cggcaggttc tgcaagctcg gggcttgcac 400
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 <212> DNA  
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<223> Clone ID: LIB3067-045-Q1-K1-C5

<400> 30874

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gaacggaaca acgactacta aacgcgcccg atcacgccgc ccgagaacga agcaggaagt 180
gactatgcgc ccaaagaagc gcaagcgtct agcattgaac acattgcggg catgagcaga 240
aacagccgat caaacaggtc atccagagac gccgatacaa accgatataa tacgttggca 300
ttaaaaacac gatagggctc agcatgtaat agaactgaag gaaggatgtt gtgagacttg 360
tatgacatgc ttaaatctct ggataaaatc tagcatataa taagtctatt acatgcttaa 420
atctctagag 430
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<210> 30875  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C6

<400> 30875

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cagtgccgct gccagcaciaa gccgctcgaa cacatcgagt cgggccatac gcgccagctc 180  
gcgggcgagc ccgatgcggc ggtgttcccg gacatcgccg agcgctgag cattccgcag 240  
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tcgctgacgc cgggcaagcg cgcggatctc gtcgtgctcg agaacgacct gttcgaagtc 360  
ggccagtacg atatcggccg catcgacgtc gcgctgacga tgatggacgg cgacgtcacg 420  
cacgtcggcg acgatttcgg cgcacgca 448

<210> 30876

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C7

<400> 30876

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attcttttgt gctttggttg tagagggttc cgtaggtttc ggtctaaaat cgtgtgcttt 180  
gcaagatcag cttcttggtt ggacttcgaa actgaaacct ggtccaggca atcggcaaat 240  
catcctgcc a tcttgcgata ctgtatccaa gccagcttaa actcacctgg atctgacgtc 300  
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<210> 30877

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C8

<400> 30877

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 gccttcaccg tctcttgctt caaagcctcc actccgagat attaggaaga accttgagga 180  
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 tccagataag cttctggggg agatgcaggg ccttttggca aacgttgaca ggatgcttac 300  
 taggccgtct gagaatgctc cttagctctg ccaatctgaa ggattatggc tgtaacctat 360  
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 gaactac 427

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 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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 gcatgtcacg taaggtagac gacgacgacg actacattga acggagggac actagacgaa 180  
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 <211> 392  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
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ggaagacaag gacagtcatt gagtggttgc accgggtttg cagggactgc atagataaat 180  
cgatgctggc tggaaataac gaatgccag cgtgccgcac tcattgtgct agtagacgtt 240  
ccttgaggga tgatcctaac tacgatgctt tgattctagc tntatatcca gatattgata 300  
agtatgagga agaggaactt gcattcagtc gagggcatga acggcaagga gctggacggg 360  
cgcaacatca cgtcaacga ggcccagtc cg 392

<210> 30880  
<211> 424  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D10

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aagttgcagc aatgcgtgcc agtaaagaac aagaaatcag agccaagcgg cttggtacga 180  
aaggctctgg tagttcacia ctgcttcctg gaagaaacgc accacgaagt gggtcctatgc 240  
gcaacttaca atgatggcag cactaacacc aagcagcatt cttggatagg tctctgttgc 300  
caccatttgt tctgttcta tctattaat ttcgtggcta aaatcgtagc acagtgagat 360  
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agtg 424

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<211> 442  
<212> DNA  
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<223> unsure at all n locations  
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gcctgcgcgg cgatggatgt caagtgccgg cgtctggagg ggaaggtggc catcgtgacg 240  
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 gtcgtcatct cctccccgaa gcagaagaac gtgaacgagg cgggtggaggg gctcagggcc 360  
 aagggtatca ccgcggttgg tgccgtctgc cacgtcttcg acgcacagca gcgcaagagc 420  
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<210> 30882

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D2

<400> 30882

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 gagcaccctg cagactctgc agtgcacgtc acaccacgag ctgtgcgagc gcaacatgag 180  
 cgagttcatg gtggagctga tactttctga catggctcct gccgatgcat agactagacg 240  
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<210> 30883

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D3

<400> 30883

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<210> 30884

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D4

<400> 30884

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atcggagata attcacgata ccttcgcttt gaagattcta aggcagctga aaaagcccg 180  
atgtctgcag tacttgcctga tgggtggcttg ataattaagg accacattgt tactttggag 240  
cctgtgactg gtgaagctga gaaggattat tgggacacaa tccgcagtat tcaaggaaag 300  
tacaaggata gttgaagcta caagggaagg gcttcaaata accagagagg aggaaagcgt 360  
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<210> 30885

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-D5

<400> 30885

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cagccgcagg cctccttcgc cggcgacatc cggggactcc acatctgccg cctctgctcc 180  
tgctcttcca cagcctacgc ctcgtccaag gcagggttca ccttcacggg ggggtaccac 240  
gagctcgccg gcacatacgt gacgctcaag aagcctctgc tgggtgctcat gaagaagatg 300  
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<210> 30886

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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tgcgctcctc gcgggtcaaa cgggtcaaate gcagatccac aggaaacccc aagcggcggc 120  
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 gatgacgacg gcgcgcccgc gcccggtgtt ccggggccagg tgtacctgcc cgcgtggcgc 240  
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 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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<210> 30888  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C12

<400> 30888

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 gaattctatg acaaggggtg tgccctcgt aaaaaccttg atgtgatgaa agccgctatt 180  
 gacagcatgg tcaatggcac ctcaatggat gatgatgata tcgagaagac cgatgcatct 240



cccaagaaaa gcaagaaaaa gaagaccaa accaaggctg atggtgatgc aatggacgtg 300  
 gataaacctt gcaacgttgc tgggtggagaa gctgagcctg gaactgagaa gaagaagaag 360  
 aaaaagaagc ataagctgga ggaggaagca caggatgaga acggtgcacg agatactacc 420  
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<210> 30889

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A5

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 gccgctgccc atcaacgtca agtaaagaac gccaaggaga agaggaagga ggggaggaaa 240  
 tacgtggaaa aaaaaataaa taaaacctgt acacgtgtat gtccagatcg cgtgccgtcg 300  
 atcgttcttc gttgttgatt tttggttgta ttgatcgatc cgtatgtgtg cgtgcgtgtg 360  
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<210> 30890

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A6

<400> 30890

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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-045-Q1-K1-A9  
  
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<210> 30893  
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gaaacggtga atcagggtgg ggaagggtctg gggaaccatg gaacagaagg gatttgatgg 300  
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<210> 30894

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B10

<400> 30894

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caacgggtctt taacgactaa atgattgagc ttgcggtgct attctttatc gacgtataga 360  
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<210> 30895

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B11

<400> 30895

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gtgtgtccga agtactgacg ctgctggtgc taataaagcc ccacagcagc atttgagttg 240  
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331

<210> 30896

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-B3

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cgggtacgag atgggcagcg cggcgctgcc ctccgcggcg tgctgcagcg gggcgcgctc 300

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catg 364

<210> 30897

<211> 420

<212> DNA

<213> Zea mays

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<400> 30897

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ccgatctgtc tggaccggtt tctgggaatg aagcgctct agttctgaag aacaaagccc 180

cgcgctggca cgagcagctg cagtgcgtgt gcctcaactt ccggggggcg gtcaccgtcg 240

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cggagcagga gaaggtgatc ctccagttcg ggaagatcgg gaaggatata ttcaccatgg 360

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<210> 30898

<211> 328  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-045-Q1-K1-B6  
  
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<210> 30900  
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ggtggttaca ttgtttactc aacgtgttcg ataatgattc cagagaacga ggcagtaatt 180  
 gactatgcac ttaaaaagag aaatgtaaag cttgtgcctt gcgggttga ttttgggct 240  
 ccaggattca tccggtaccg ggagcatcgg tttcatactt ctttagaaaa aacaagaaga 300  
 ttttatactc atgtcaataa catggatgga tttttttag ctaagctgaa aaagttgagc 360  
 aatacaatcc ccgtgacgtc tgagccgtct aaagcatctg aagaagcagc taaggttgat 420  
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<210> 30901  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-045-Q1-K1-B8  
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 caggaaggca gattgttctg gcgaagagac ggcggtggaag gccgtgatgg agaggagctt 180  
 cgcgcgactg gacgagcagg ccgccagctg ggcgaccagc cgcagccgcg acgagccctc 240  
 ctgcaagtgc gagcagcaga agcccttgcg ttgcgatcac gtgggggtcca ccggcggtgt 300  
 cgccgtcgtc agccccaccc acgttgcgt cgccaacgcc ggcgacttcc gggccgtcct 360  
 attccgcgcc ggcggttccg ttccgctgtc cgtcgaccac aagcc 405

<210> 30902  
 <211> 440  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-045-Q1-K1-B9  
 <400> 30902

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 ctgcaggctg gaaaagctca atgttgcaat atgagatagc aacattggag gtggtgttac 120  
 tggtaggcgt ttctgtggtg gtagtgccta tccttattca tgaaggagaa cctagaagct 180  
 agaagccttg aaaataaatt aaaccctcga gatgactaac aaattgccat ttaacggatt 240

tttttggtat agctgaacag gcggtgtttc agctggaaat ggaaacaggg ggaatgggca 300  
 gcggcctgta acgactttct gattgagctt gcggcgctct tctttctcga cgtatagacg 360  
 gagttctgtg agcagtatgg aacctgcttg ggtcttgatt tgtaaatggg acgggtagaa 420  
 agcttagtca aataactatt 440

<210> 30903  
 <211> 418  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-045-Q1-K1-C1  
 <400> 30903

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 cctaaagcct ccttccaatc aagttcatcc taaaattctt gaagtatgga taggttcaat 120  
 agatggaacc catgttccag tatcaatgtc acccgatcaa gccgcaccat tcaggaatag 180  
 gttgggagta gttgtacttg gttccctgca gctgacagga aatattggtc atatggagac 240  
 agttctgcac agcgttctga gtgccgatat gagctatata tatgttgcac ttctccatgt 300  
 ttgggctcag catgtaatag aactgaaaga aggttggttg gagacttgta tgacatgctt 360  
 aaatttctgg ataaaatcta gcatataata agtctattac atgcttaaat ttctagag 418

<210> 30904  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-045-Q1-K1-C10  
 <400> 30904

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 gatgttggtt tatcaggatc tcctatctgg cgacgagctc ctgtcggatt cattcaccta 120  
 caaggagctc gagaacggcg tcctgtggga ggtcgaggga aagtgggtca cccaagggtcc 180  
 tgttgatgtg gacattggtg ccaatccatc cgccgagggt ggtgaggacg aaagcgttga 240  
 tgacacagct gtgaagggtg ttgatattgt tgacacattc cgtctacagg agcaacctcc 300  
 ttttgacaag aatcatttg tgtcttacat caaaaaatac atcaagaatc tcactgctgt 360

gttggagcca gagaaagcgg atgagttcaa aaaggggtgtc gaggggtgcaa ccaagtttc 419

<210> 30905  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-C11

<400> 30905

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atgcAcggTc attgatCCaa gccctaAcCa ttctcatatC tgaacatAtg gatAtgtgtg 120  
tatcaaaAgT tcagaacgtg gtcatgtAac tgaaaatgtA aaagttgtAa gctgatcttt 180  
caagtacaaa aatgaatgtA agtccctct taatttattg ttttactaat cgatccatag 240  
tgCGaatact catgttttTA tttcagctag cactagtgtt gcaattctgc ctgacttgac 300  
atgattaatg aaaaatgaga catgtatttt tc 332

<210> 30906  
<211> 441  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-G7

<400> 30906

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cattatgatt ttgagttagc aaaaaaaaag atagcagcaa ccgactagat caaaatttga 120  
aaaactcaaa tatagattca cggggataga tatgcaataa gattcatgct atgttctgtt 180  
agttgaatgg ttgaacatgc atgtatcttt cttgaattct gtctgcagca acatttgctg 240  
ccgtcgTcct tggatgtgtc gcaattgttt tgcttcagac tctaaacaac aggaaaagat 300  
tcaacagaaa tggaggtaaa ctactgaatg ccagggcat aaccacctac accaaaaggg 360  
agctgaagaa gataactaat ggctacagca aacgccttgg acgagggcac tttggcaatg 420  
tttacgaggg caccatcgTc g 441

<210> 30907  
<211> 267



<212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-044-Q1-K1-H10

<400> 30907

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 ccggncncc aacacacaaa agcgagggcc acaaagcagc cagagcccgg aggcagacgg 180  
 caccagacag agcancnagn ncaggaagag ccgcagaaga agggggcgga aaggacaggg 240  
 accangagaa gggggggaag aagaaaa 267

<210> 30908  
 <211> 301  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H11

<400> 30908

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 aaagagtaaa taaaaaaaaa ggccggggcca aaaaaaaagg gcggccgcgc aaaaagaccc 120  
 aagcaaaca acgcgggcag gcaaccacga agcgcgcaaa cagaaacacc aaaaccgaag 180  
 acacaggcca cccaaaaaca acgccaacc cggaaaaacc caggaagccc ccaaccaaac 240  
 cgccgcgcaa gacaaccaa gggcaccagc ggacgcaaca acacaacagc ccgcacgcac 300  
 c 301

<210> 30909  
 <211> 321  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-044-Q1-K1-H12

<400> 30909

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 agttcggaga acacaatcct gccccagag tctcccgga caagctcgct gatggcttcg 120

cgggtgcgacc tctgcgacac gccaagggc aagaaggaag acaagccgag gggctttcttc 180  
 tactgtttca gcgagtgcta ttagcacgag ccctcccaa ggggaacact ccgataagct 240  
 agcaaatact gaacgaacac cggctctccc cagcttcgat gccctgcgac ttaagccaat 300  
 gtcagcccgg caagtcccag g 321

<210> 30910  
 <211> 343  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H2

<400> 30910

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 ctggagggca tgtccatgac gccgcctgca gccccgcca cggtagcgga ggcctactgc 120  
 ctgctcaacc ttggggacag catcaccacg gaccacatct cctactcggg gaagatcccc 180  
 gagggcacac ctgcgggcaa gtatctgctc gagtatggcg tggagcccaa gaactttagc 240  
 tcctatggtg gccgcccggg gaacaatgag gtggtgatga ggggagcggt tgccaatatt 300  
 aggatcgtga ataagcttct tgatggcaag gctgggccct gga 343

<210> 30911  
 <211> 375  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H4

<400> 30911

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 gacttcaact ggtacgaggc tcttacaac tcacctgatg accaagcagc agcataaaga 120  
 gccaggcact tgcacattgc ctggccagta gatccattga taaacggaca ctatccacag 180  
 ataatgcaag atctcgcgaa ggagaggctg cccaggttca ctctgagca ggctaaactg 240  
 gtgaagggct cggcagacta catctgtatc aacgagtaca catccagcta catgaagggg 300  
 cagaagctgg tacagctggc cccagtagc tactgtgccg gatggcaggt tcaatatgtt 360  
 cgtgcacgca atggc 375

<210> 30912  
<211> 430  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H5

<400> 30912

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ctcgattccc aaggtacaat cgtaattatg ttcaaacaat ttttaagtcg tcctgcgctc 120  
cttctattac gagcaacggt ttatattctg tgcttgcata ataaatcgaa gaaatcctga 180  
caccaatcga actgaagatc ctgaaacgca cgttaatacc gttgacgtcc gcttcaccca 240  
gctcgatttt cagtcttgta ataataattg agaactccaa tgaactgaga gttactaatc 300  
gctccatgag tctgaagcgt gcaaaaattt aggtcgcagc tacacaaatt tacacgctgt 360  
tctatattct atattctata ttatatttag gtcgcaacta cccgtgaatc tcctattttg 420  
aaaggtcact 430

<210> 30913  
<211> 455  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-044-Q1-K1-H6

<400> 30913

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aggctacgga cggaacagtg cagtttcaag ctagtgagaa ggattacctc ggagacatca 120  
gtcgagctca agattctctc tgaaaaatgg cggcttctcc tcgctggcgt catttttcag 180  
tgcattcatg gtttgccgc tcattggggtt cattatttgc accggccggg gccaccctt 240  
caagatcttg gcttcatgat tcttccggag cttgggaaag aaaggggtta catcagtgag 300  
acattgttta cgttcatctt cctcgccttt gtgttggtga catttcatcc tttcatcctt 360  
cagactaaac gcttctacac tggtctgata tggcgcangg tacttgcatt cttatgtgtt 420  
tctcagtttc ttcgaaatat aacattctat gcaac 455

<210> 30914  
 <211> 317  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-044-Q1-K1-H7  
  
 <400> 30914  
  
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 tgacgcataa gcagaggagc tgatgccgca tcaaaacgct ttattaccag ataagtcgac 120  
 tgtgcttgac cgagcaatga tcgagcataa tctccttagt gccagtaaac tttacacaca 180  
 tatcagctta gatgagcttg ggacattact ggggattgat ccaagagctg ctgagatgat 240  
 agcagtctcg agatgagtga atgggtgatcg aatgctgagc tcaataaatc aggatgagggc 300  
 tgagatacat tttgatg 317

<210> 30915  
 <211> 450  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-044-Q1-K1-H8  
  
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 tgcttcaaga agtttgctga gacagccgag aagtgtgttt ctgatcagag tattgaccgc 120  
 ccttcgatgg gcgatgtgct ctggaacttg gagtttgccc ttcagatgca ggagagcgcg 180  
 gaagagagcg gaagcctcgg ttgtgggatg tcggacgagg gcactcccct tgtgatggtc 240  
 gggaagaagg atccaaatga cccgtcgatc gaatcgagca ccaccaccac aaccaccact 300  
 tctttgagca tgggcgatca gagcgtcgcg agtatggact cggatgggct gacgcctagc 360  
 gccgtcttct cacagatcat gaaccccaag ggcggtgagg taaaactggt cccattcggt 420  
 accttgcatc cattcagcat gtttttttca 450

<210> 30916  
 <211> 338  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H9

<400> 30916

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ggggcattgg aaatggtgtc tatgaaggcg gaggtgacat gtgtgcgcga catgcttcgc 120  
ggggacgatg cctatgagat gcgggtgaag cttatcaagc aagtgccgga ggaatacccc 180  
tacatggatg atgactagtt ctattttagt gcaagattgc ttgtttggat tttgacatcg 240  
ttttcgtcga tgggccgtag ttctgctata acctgatatc atacgaggaa agctgcgtct 300  
gttttgcttg tgtattgtag aaatcataca taatcttt 338

<210> 30917

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-045-Q1-K1-A1

<400> 30917

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gaggtggagt cctcggacac cattgacaat gtgaaggcca agatccagga caaggagggc 120  
atcccccccg accagcagcg gctcatcttc gccggcaagc agctcgagga cggtcgcacc 180  
ctcgccgact acaacattca gaaggagtcc accctccacc tgggtgctccg cctccgcggt 240  
ggcgccaaga agcgtaagaa gaagacgtac accaagccca agaagatcaa gcacaagcac 300  
aagaaggtga agctctccgt gctgcagttc tataaggtgg acgacgccac aggcaaggtg 360  
acccgncttc gcaaggagtg cccaacac 389

<210> 30918

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A11

<400> 30918

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gctatctgcy tcggcgacac cagtgtcggg cttggtgcgg aggggacgaa cgaggacgag 120

gatgcgtgcc ctctgccatc agacttggtg tggcgggagc cattttttga tcagatgatc 180  
acgaacagat acagaccagg gcatctgtgc tcacgtcgat ctgatgcgct ttgatgatgg 240  
gatcgcgatc gtctcgctcg agtcagcctg tgtgatgcgc ttcagtcgag cagaaccagc 300  
ctctgactca ccgaagcaag ggggcagtgc cagtgaatct actgcagagg tccccgttct 360  
gctgaacccg ggctcccttg cgctcatgtc tggcgatgcc aggtatctgt ggatgcatga 420  
gatt 424

<210> 30919  
<211> 413  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A12

<400> 30919  
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aaatatgatg acgaacaaga gcagtgtgtg ttcccggtcc tttccaatca ggatctggtg 180  
aagtttttgc ctttcatatc gaagaaatta ataattcatg tagagggagg attcttataa 240  
caatttgttt tggatggaga cttagatctc caaacactcg taactatcct actaggtggt 300  
gacatcagtc cccaaaaacg tctatggtca tagagtctgc ctttcgtttg tcagtcgggc 360  
aatttttctt gcatacaatg ctttcgttta agtatcggat gagttgctgc gac 413

<210> 30920  
<211> 285  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A3

<400> 30920  
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acaggggggag tgtaaaacac aaacaggcca gacaaagcaa aggccacgac ccatcacaag 120  
gaccccatcc aaccgcgacc agcagccgcc catctacccc ggcaagcagc tcgcggacag 180  
tcacacctc gccgactaca acacacagaa ggagcccacc caacacctgc tgcaccgact 240

ccacgcgggc gccaaagaaac ccacgaagaa cacagacacc aagcc 285

<210> 30921  
<211> 315  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-044-Q1-K1-G6

<400> 30921

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atacctatgg gtggcttcgg gacctcgcgc cctgcctccg tcgccctctg cgccttcctc 120  
accttcctca acctcttcgc cgtccttctc gccgtcggcg ccgagcgccg ccgcagcacc 180  
gggaaggtga tgccggacga gtacgacgag cggctctact gcctctacga cactgacgcc 240  
tncacggtgt acggcgtctc cgctttcttc gtgctcctgc tccagcagge cattgtcaac 300  
gccgccacgt ggtgc 315

<210> 30922  
<211> 299  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E8

<400> 30922

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ttttccactg tgaatagggt agtctactac ttttaacaat ttgggttcatt ctttttccac 180  
cacagataca cctgtaccta gaatgcttta atagatcctc atacgaaatg gacattgtac 240  
atttctttta acaagtcagt ctcttgctca ttataatctg gaaccatttg caattaaaa 299

<210> 30923  
<211> 242  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E9

<400> 30923

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agaggggtaaa aaaaaaaaaa aggccgggca aaaaaaaaaa aaaaaaaaaa aggaaaaaaa 120

aaacaaagga gggccgcaca gaaataacaa acagagaaaa aaggggccaat aagacagacg 180

agagacagcg gagagggcac cgatagagat gaaaagccgg cgcattgtaga agaaaggggg 240

ca 242

<210> 30924

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F1

<400> 30924

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aaaagaaaaa aaagagaaag gataaaataa aaagagggcc aggcaaaaga agcacaagca 120

aaccaaagag ggcaaccac acaaaagtgc cttgacggag ggacccaa 168

<210> 30925

<211> 186

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-F12

<400> 30925

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aaccaagcca caaggcgggg ccaccgtcaa ggagggcaca ggacaacaga ccaagcgccg 120

acaaagaacc acgccgggag ccacacccca caagagagac cnggacccag cgaacggggc 180

gcagca 186

<210> 30926

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F2



<400> 30926

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agagcatgaa catgccgtac gctaagtcca ggtactgccg tgggtgtccct gaccccaaga 120

tcaggatcta cgatgtcggg atgaagagga aggggtgttg cagagttcccc gacggcgtgc 180

acctcgtctg ctgggagaag gagaaagacc ccagcgaggc gctcgaggct gcccgattg 240

cccgaacaa gtacatgacc aaatgtgcag ga 272

<210> 30927

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-F3

<400> 30927

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ttaggctatc tccagcaaga taaaggccac gaatcccggg tgtggtgctg gcgtggaggc 120

agcaggcaag aagaagcagc agatctaccg atggaccgcg agtgaccgtg actgcgagct 180

catggggctc atgtggctgc tgcagcgcaa tgccacacgg tacggagcgg cggccacggc 240

cgtgatccgg gccctaattg ccgtggacga ggcgttcacc gcaggggtcg cggtggcggc 300

agatacgggg gcagccgtgg cgtgctcgtt gcccggtggac gacgacatgc cctnccggc 360

cgagtacgcg caggtcagca gggccagcga cgcgcctcgt ctctgctgct tctgctcgt 420

gctgctc 427

<210> 30928

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F4

<400> 30928

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tcttcaccac cttcgggtgct ttcgcatatg gcatgtacca ggtcggccag gggaacaagg 180  
tccgccgggc gctcaaagaa gagaaaattg ctgctcgag tgctatactg ccgatgctcc 240  
aagcagaaga ggatgaaaga tttgtcaaag agtggaagaa gtgtcttgag gaggaagcga 300  
ggatcatgaa agacgttcca aggtggaaag gccgccagag cgtgtaccac tctgggaaat 360  
ggattccccc g 371

<210> 30929  
<211> 364  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F5

<400> 30929

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ggtggcctgc acgctgcacc acctcacgct cgaggccgctc gaggccggat ggaagaagct 180  
ctactaggcc aaggtctggg tcaatgccat ggctcgactt caaggagctc caggaattta 240  
gccacaaggg ggacgccacc gtcttcacca acgccgacct ttgcgccaag gaaggtggac 300  
atgaacctgg ttggcgtgag gttccagtag aggatcctgt ggtcaaagat gctgcacacc 360  
atgc 364

<210> 30930  
<211> 412  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F6

<400> 30930

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cctctacggg caattcgatc tgcatcatgg aaaccatttt gattgttggc tgcaactcca 180  
tttgctattc tagcccgaga aggcagccct tgttcacttt catcatcggt gttatgcttg 240  
gagacaatcc cagctccagt gttgctttcc ccaacatttg caatacccga ttttgttggt 300

cggtcttttg acttaactag gtcaggatcc tcggagccat gttttcgctg aacacccaaa 360  
attggctcca gaaaagttgt ccatattctc atcactttat ctaattgatc tg 412

<210> 30931  
<211> 391  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-044-Q1-K1-F9

<400> 30931

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ctcttagcac aaataatgtc cagatggctg cagagctggt agcagtagca gaccagaatg 180  
ctctatgtat gtttcacgtc ctgatggcag atgtgcgcga gaaagcaacc ctatttatct 240  
gagggattac tacgagatca aggaaaatga ggtcgcgttc ttaaaagagc ggacgggggtg 300  
cagacagaac gcgatcgcca agatcgctga ggacaagcac aaggacaagc tcccgctcaa 360  
ctttcgcaag ctctgcttt gccagctcaa g 391

<210> 30932  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-G1

<400> 30932

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ccaagacctg atcagttact tcatgtctga ccctgtccac ggtgccatcg aagtctgcgc 120  
tcagctgagg cccactgttg acatctcagt gaccgctgat gcagatttcg tgcgcccaga 180  
gcttcgacag tcttcataag cttgtatgga tccgcagtgt gactgcaatg gctagcttgt 240  
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aggac 305

<210> 30933  
<211> 209

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 30933  
  
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 agccggagcg aagcgaccgn acaacggaca accagcgca naggcacaan ccccgagcc 120  
 ggacaagcaa acggcgagca cnggaggccg agagcgagca cgagaggacg gcccgagcag 180  
 aagagcagaa aaggcaaaca cacacaggc 209

<210> 30934  
 <211> 402  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-044-Q1-K1-G11  
  
 <400> 30934  
  
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 aatgactaac cagttaaact atttgtcacc agctattatc accaaaaatc atgcaggtaa 120  
 tatcaagaat ataaaaactc ggccggtggg gaaagaccgc cccacggtat ttcactaaga 180  
 agagctcaat cagagcatga gctggcccc tcatacatag ggatgtctcc cctatggttc 240  
 gggccttgac ccatgctttg agggccaacc cacatgacca gcctcttaca cgagggtcgc 300  
 ttcacccatg ccgactaaga gaaccagcga gtgacgtttt ttttaccaca gtctgaaatt 360  
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<210> 30935  
 <211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-044-Q1-K1-G3  
  
 <400> 30935  
  
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ttctattgct ccgaagcccc agttgcgagc tgtctctctcc actcttctcc ttcactgtcg 120  
 cagccgcccc ttgtagaagc ttcgaggctg ctgctgctgc gcccatggcc gcggaaggca 180  
 agacgccgtc cctcgccgag gagtattcac ttccaccaca ggaagttcca gtggaaaagg 240  
 cagctgagga gaagccctct agtgggtactg agtctgaagc tgctccctca accaatgatg 300  
 aaactcctcc atctgtagaa gacaagaatg gaacttctga agtacaagat gctgctgaaa 360  
 atccagaggc agaagaaact aacactgctg canaggaaac acctgctgta gaggaagcaa 420  
 gtgagactac cgaggagg 438

<210> 30936  
 <211> 384  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-044-Q1-K1-G4

<400> 30936  
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 gngatagggt ggggtgacagg ggttgctaca tccatccaac gattttctca gatgtccagg 120  
 acggcatgaa gattgctcac gaggagatat ttgggcctgt gcagtcgatc ctcaagttca 180  
 aagacctcaa tgaggttatc aagagggcaa acgcgagcca gtatggattg gccgccggcg 240  
 tgttcaccaa cagcctggac acggccaaca cctgacgcg cgcgctcagg gccgggaccg 300  
 tctgggtgac ctgcttcgac gtcttcgatg ctgcgattcc agttggcggg tacaagatga 360  
 gcggcatggg gagggagaag ggcc 384

<210> 30937  
 <211> 373  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E6

<400> 30937  
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 caggagttca ggcgcggcga acagggggga gaagcagcca acctcgctcg ctactcgcta 180

gcctagtcgg cggttgccat ggggatcggc tacgtagtgg gcgttctcgg tggcgccatc 240  
 ctgcgccacg ccgcctacgc caccatccag taccggggcg tgctcaagat cacggaggaa 300  
 gagttctcgc ggccgccccat ggatgtgatg atggagttgc tcctaggggtt ggctttgtgc 360  
 atgtgggcag gtc 373

<210> 30938  
 <211> 345  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-G5

<400> 30938

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 atgcatatcg tcctgagctg taaaacaga aactacaggc caataatagc ttaattttta 120  
 gagtacaaaa atctgttatt tgctgatag tttatctgga gcagtttcat ttacatatg 180  
 actgtaattt gtgagaatgt acatcttacg atttttgttg accagtattc ataggttttt 240  
 agttagcaat gtgttggttg cccgttgcta gtccttgtaa tacaagccca cctgtttatt 300  
 tttgcgcag gcaagactta acctggaaaa aataaatata aaatt 345

<210> 30939  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-044-Q1-K1-C8

<400> 30939

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 natgaagcta aggtctggta gaagccatgg gagaacttca agcagctgca ggaattcaag 120  
 cctgttgaag aggggtgctag cgctaagga tctgtcgtct ccctgtgcaa tttgtgcct 180  
 gaagcgcaaa actaagttac agaataagga gctgcttcgt aacatgccag agcatgcacc 240  
 ctgcgtaat ttcataaaat cacagggtc ttaatgtaat atcttgaatt gccgtgccat 300  
 gtgtaataag taatatcatg aataacagtt gctattatgg gttctaaagg tttattaaca 360

gccatccatg ggccatggca gaattctcat attaacttgt tg

402

<210> 30940

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C9

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caaaagccaa acggaagcgg cacgcgtaac aggaccaaca aagggaggag ccaccagagc 120

gagaacagca tcaccgactg caagagcggg ggcaataccg gcgggtactg caagctcggg 180

gctagcatgt gcaccaaaga gtgtgaccga agtactgacg ctgctggtgc taataaagcc 240

ccacagcagc atttgagttg atgagtagta aagaagaacg cttttgttat gccagcggaa 300

gctctagaat tcgaggccga gatgacccaa aataaatgat tttgttactc t 351

<210> 30941

<211> 116

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-D1

<400> 30941

accacgcgtc cgcgaggaaa atggactact acatgnacca taggattaca cgcccaaggc 60

tcaggcagcc ggggcgggtg aatcaaakat ggccacggac atgctcaaga agaacc 116

<210> 30942

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D10

<400> 30942

ggttcacttc tccagttaaa gtgttcgtat tcattgcgcc gccgcagcca aagtcggggc 60

tcttcgttgg catcaacaag ggtcatgtcg tcaccaagcg cgagctgcct cctcgcccg 120

gccaccgcaa ggggaaatca acgaagaggg tgtctatggc caggggcctg atcagagagg 180

ttgctggggtt tgctccttat gagaagcgta tctactgagct tctgaagggtt ggcaaggaca 240  
 agcgtgccct gaagcttgct aagagaaagc ttggaactca caagagggca aagaagaaga 300  
 gagaggagat ggccggcgct ctcaggaaga tgaggtcggc tggtagcac actgacaaga 360  
 agaaatagag agcatttcaa ggtcatggaa cctgccaaag attatgttcc ag 412

<210> 30943

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D11

<400> 30943

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 aatgactact atcagtactg cgaaggataa tcccataagc gatgcggcta ttcgcatcct 120  
 atgaagggtgt tactggaaat gcttacgatg cataaatgca tgggtccgcac atgatggagg 180  
 cataatacct atggtatgac ttgactggag tggctcgtctc cagaagcaga cctggtcttg 240  
 caaggacgat ccctgagctg gacaaaaaca tgtatggaga catcgtcgat gtgtgtgact 300

<210> 30944

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D12

<400> 30944

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 ccggaaggcc ggaagattgt acacgcggcc tgatctggaa atggtactct ccatcgggta 120  
 ggggtggcggg cataacagac tcatataacc agcttgctca acttaatctg tctgtcctgt 180  
 atcaga 186

<210> 30945

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D2



<400> 30945

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ggacacgccca tctggggaaa cataaactga tgcgacgcga tggcctgtaa tgtgttggtg 120

ggatctagac tagatgagat ttatttaatg taggtgcttc gttgatcatg tattatgta 180

tgtaatagac gctttgctgt atcgagatgc aggcctgcag cttggcaacc tggccgaatt 240

tgggcagttt ctttcatgct tctttt 266

<210> 30946

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D3

<400> 30946

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agctgctgcc atggaggcgt gtagatctct cctcgcgagc gtcgtgctcg ccgtgctggc 120

cgcgcaggcc ttggtggccg tggtcgagtc caggaccggc cccgtggagc acgcgagcca 180

aggtgacgac gtgaagaagc cggactgcgt gccggggata gaccgcgct cgttcccggg 240

caccggcggc ggccacggca tcacgcccgt gacgccatcg cacggaggct ccagcttctc 300

gacgccgtcc cacggcg 317

<210> 30947

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-D4

<400> 30947

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gtgagaagga cgggtgctggc ggcgctgctg gtggccgccg ccctcgccgg cggcgcgcgg 180

gcgcagctca aggaggggtt ctacgactac tgctgccac aggcgagaa gatcgtcaag 240

gactacgtga aggcgcacat actccacgcg cccgacgtcg cctncaccct gctccgcacc 300  
 cacttccacg actgcttcgt caggggctgc gacgcgtcag tgctgctcaa cgcgactggc 360  
 ggcagcgagg ctgaaaaaga cgcggcgcc 389

<210> 30948  
 <211> 330  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D5

<400> 30948

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 cgggtgctgct agctcaacca tggcgggactc caaggccacc tcggcgggtca ccctccgcac 120  
 tcgcaagttc atgaccaacc gctgctggc cgcgaaacaa tttgtgcttg aggttatcca 180  
 ccccggccgc gccaacgtct ccaaggcgga gttgaaggag aggcttgcca agatgtacga 240  
 ggtgaaagac cctaacacca tcttcgtcgt caagtttcgc acacacttct gtggaggcaa 300  
 gtccactggc tccggcctaa tctacgataa 330

<210> 30949  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D6

<400> 30949

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 gcattcccag cccatccgaa gcgaagcacg ccaccggcct cgaagggatc agcttctcta 180  
 gcactcatca tcgtggcctc gctcctcctc ttctataacg gactgcgtct gagtggagat 240  
 acgcgccgac atagaccgac tatagcgtc gctgcctacg attgatggcc tcaccttcac 300  
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 cggagacacc ttgatccgag actgataagg ca 392

<210> 30950

<211> 240  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D7

<400> 30950

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ctagtcctcc cgtcgtgacc cgtacgcacg atctgcgatt ggccgacgcc cggctcgccc 120  
tcgtcaacaa aagcacaccg caagcgagcg aaaccgagca atagtgcac tagaacgcac 180  
gggctagctg agcctggatg gacgacctga ataatgaagc aactgcgtga tatgcatgtt 240

<210> 30951  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D8

<400> 30951

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aatgcaagtt aataatgagg caccactagg gtgcctcaag ccaaataatt ctcagtataa 120  
ctctccagag cagataggtg gtgttgaagg gtttcctgag aataatgaaa aaaggaatga 180  
tattgttgct gcggaaaaaa tctgggaggc gactccaaac caaggcctta gcaggcccat 240  
ctaccgacaa gaattttatg cctggccata tatttattca gattatcaaa tcgtgcgtca 300  
gccactacct tatggttttg acaaccaatt ttatcagata aatagggacc acggtttccc 360  
tattgagaac agggttcaat atcttccatt caagatgctc cc 402

<210> 30952  
<211> 387  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-D9

<400> 30952

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tgttacaaat gaccatttca agactgcgct tggaacaagc aaccatctg ctctccgtga 120

aactgttggt gaagtcccaa atgtctcttg ggaggatatt ggtgggctgg agaattgtcaa 180  
gagggagctc caggagactg ttcaatatcc tgtggaacat ccagagaagt tcgagaagtt 240  
tggcatgtct ccatccaaag gagttctgtt ttatggctct cctggttgtg gtaaaacctt 300  
gttggcgaat gcaattgcc aagagtcca ggctaacttc atcagtgtca aaggctcctga 360  
attgcttacc atgttggttg gtgagag 387

<210> 30953  
<211> 166  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E1

<400> 30953

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cgcgttcaga attccgagcg gcagcggcgc tcctaattgca cgcggcacag atgtcccgga 120  
ggccaatggc aagctcacgg ccaggccctt ggagcatgct agccaa 166

<210> 30954  
<211> 368  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E10

<400> 30954

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gtgggacgac gtggtggcgg ggccctcgccc ggagacgggc ctcgagaagc tccgcaaggc 120  
caccaccgcc cgcccgtcgt tcatcaacaa agacgcggac ggcggcagct acaagcgggc 180  
gcagtcgacg ccgtcgaccc cgacgacgcc ggtgacgccg tcgtcgtcga cgacgccgcg 240  
cggcgccggc aacgtgtggc gcagcgtctt ccacccgggg agcaacctgg ccaccaaggg 300  
catgggcgcc aacctcttcg accggccgca gcccaacttc cccaccgtct acgactggct 360  
ctacagcg 368

<210> 30955  
<211> 257  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-E11

<400> 30955

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gaggactaac gaggaggccg ggcctcacia aggagacaac acccgagaag caaaaaaaaaag 120

gaaaagaccg cccgcccaaa cggcaciaaac aaagacacgg acggcggcag caacaagccg 180

acgcacaaga cgccctcaac gccaacgacg cgggcgacgc cgaacaacgc gacgaccgca 240

aacaccaccg cggacgc 257

<210> 30956

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E12

<400> 30956

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tgatgctgag ttacgtgtcg aatctcgctt tctcgaggcc aaggccgtgc tgcacaagac 120

gtcggacacg cccgctgagg ccgagcagcg gctgctcgag atcgaggacg tctgtatgga 180

cagcagcggc gacagcggcg cgtggaagga ggtggcgacg aaggctggcg tacagcgcgt 240

gttggcaacc cgggtgacgc tgcaagtctt ccagc 275

<210> 30957

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C6

<400> 30957

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aagcgagcgc gagtgagctc aaaggtagcc tgagcaaata acttaaacag gtgtcagatc 120

ccactctgcc tctgagctgg aaagggcaga aagcattcaa atctgagtct gacgtcaaga 180

atgaattcaa gtcaatggct ctgagctttg ccagtgccaa gaatgccgcc atggagatcc 240

cacctgaaaa ctacctcatt gtcacaaaaa atggaaatgt gtgcctgggc atccttgatg 300  
gaacggctgc caagctgagt ttcaacgtaa ttggagacat cagcatgcac gatcagaagg 360  
tgatctatga caacgagaaa tcccagctgg gaatggggccc gaggggcat 409

<210> 30958  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E4

<400> 30958

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caacgtctgg aactcgcacc ccaagaacta cgggcccgga tcccgctct gccgtgtctg 120  
tgccaaccct catggactga tcaggaagta cgggctgatg tgctgcaggc agtgcttccg 180  
cagcaatgcc aaggacattg gcttcatcaa gtaccgctga aatcagggtg gaatggacca 240  
tgtggtagag gcgaggttgt agttttatct ccagtaattt agatgttttg ttcaaaagtc 300  
tgctagtaaa gactgctacg tttatgatgg agaacttagc catgttggtc atgttggtca 360  
tattgatcat gagttaccta tgttgagc 388

<210> 30959  
<211> 402  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A9

<400> 30959

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gaatgtagca tagcatcatc ggtttttgtg tttcattaat tctcatttca agatggcatc 120  
tgctggccta aagccagggg tgccgtttat tctacgggag ctggagccat cctcagagat 180  
gttcaagcaa ggagcgtccc ttcgagtcac aggaagtctc cagtcattcg atgtggagtc 240  
cgcgactgcc accattcaag actgcagcgt aagtctgaag gttgacaccc agcatctgag 300  
ggatgtcagt ttccgcacga actcgggtga ccaattcatt ggtgaacttc agatccgcga 360  
agttgatgat gccattctac tctcgcgcat ctgaaggaac gt 402

<210> 30960  
<211> 223  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B10

<400> 30960

ccacgcgtcc gcgtcgaaga aaaatctttc gttaggtgat gagatgtctg gaggaagaaa 60  
gcaatggaga gcaggctcat tttgttccat gtgcctgcct gcgcatactg cctctctgtg 120  
caaattggcc gtactccatg aatcacactg caattctaaa aacgcttagc gaaacgagaa 180  
tgcaacacgt aataaacgaa aaacaccggt tggctttaca atg 223

<210> 30961  
<211> 207  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B11

<400> 30961

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ggacttaaaa cgaatggact ggaaaaactg tggctttacc cagctgactc accttgcaaa 120  
agatccgcat ctagcgagct tgcgaacaag cgaacaggcc ggaacgcata gggatgcgaa 180  
cagtagcgca gcatgaaggg cgaatgg 207

<210> 30962  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B12

<400> 30962

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accgtaagac cgacgtccgg atcgacacag gtgaggacat caagagggtc gaggggctga 180  
tcgagctgcg cggcatcgag ttccggtacc cgtcgaggcc cgacgtgacc gtgttcaagg 240

gacttgacct gctgatgaag gctggcaaga gcatggcgct tgcggcatg agcggctccg 300  
gcaagagtac cgtgctgtcg ctca 324

<210> 30963  
<211> 416  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B3

<400> 30963

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ggttagagag gaagaaattg caaccgaaac aatggcgga gattccggcg ctgcgagaca 180  
accaagcttc accaaggtcg accagctgct ccctggaacc cagggccaca acctcatcct 240  
caaggttggt gactccaaga tggctgtcca gagaggccgc gagggagggc cccagggaag 300  
acagatgagg attgctggagt gcttggttgg tgatgaaacc ggcattcattg tcttcactgc 360  
atgaaacgat caagtggatg gaattaggcc tggaacaact gttgaactga ggaacg 416

<210> 30964  
<211> 398  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-044-Q1-K1-B5

<400> 30964

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gggaaacact gctggtccag gtgatgctgt tctcaatgta tacataaatc atgacaagaa 120  
atttgctttt gtggagatga gatctgttga ggaagcaagc aatgcaatgg ccctggatgg 180  
cattatgttc gaaggggcac cggatgaagg tagaaggcca acagactaca acccttcctc 240  
tgacgcccgc ctgggcccac gccagccaag cccaatctg aatcttgctg cagttggcct 300  
aacagcagga tctaatggag gactagaagg tccagaccgt atttttgtgg gtggcctncc 360  
gtattacttc actgaagcgc aagttcggga gttgcttg 398



<210> 30965  
 <211> 376  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B6

<400> 30965

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aacctgctta tctcgtgcgg tacagattaa ataatggcac gaacacagag gttactttac 120
tgtacggcca cacatgtctc aatcattctg tagcaatata tggaacggaa cgagtgccgt 180
gctaacacac gtcataataat cgactctgta caacactagg cccgccattg ggtgaccgct 240
tcttggttct ccaaggtgca gctgtcactt gagagcctac tgatcatgat tgtcgatacc 300
tgccaatagt ttgccggaac atggatcaag gttgtctgca tcagtttggg ctgaatggaa 360
aggataatta aaagga 376
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<210> 30966  
 <211> 361  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B7

<400> 30966

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agtcaatcga gccatcaaaa caaatgtata aacaggatga tggactgggt tgttctggca 120
gtagcatggc caatgacgac gaccttgatg gctctggtga agcagaagag tggcagatcc 180
tttagacgag gctaagacat gttgggctga agaaaaaaaa aacttgcatt gaaaatgttg 240
tctgaatgcc ctctgtctgcg tgtgaataga ggggattatt tgtgtgatct cggggtggaa 300
atgttcagaa catacactcg tagtcgtgga tgataataat taaatgtatt tattattcca 360
t 361
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<210> 30967  
 <211> 232  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B9

<400> 30967

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ggacggggcca acaagcaaca aaagacggcc gaaacaaaaa acagagcgca cgagacgaac 120  
aaggacaaaa gaagcaaacc cacagccagg aaaaaggccg acgcgacaga caaaagagga 180  
ccagaagacc acaaaccgag acagaccagg gcacccgcgc gaacaccaac ca 232

<210> 30968

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C1

<400> 30968

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gaagcaaadc aaaagaaagt gatgcaattg gcagcgaaca atgtattgca acgacttctg 120  
aagagctggc ttcaatatat tcatcaacta actttgctcc gccatctgag ggaaggaaca 180  
gttcactacg agatgatgaa aatgctgagc tggacataga tgatatcgac attgatgaca 240  
acccacagaa gccaaaaggt ccacatttcc ctggtctaag taaagataaa atcagcaagg 300  
gactccaaac ccttaaagga aagttgaagc ccaagactga agaaatgata agctc 355

<210> 30969

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C10

<400> 30969

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gccaaaggagc taatgcatga ctacttcatt ggggagttga actcgtaccc aactcctgag 120  
attcctgaga tggaggtttt cagataggaa cacgacacac gatttgccag gaagcttatg 180  
gacgttgttg tgcaatattg gtcgatccca gccgctgtaa ttgggatatc agctgttggt 240  
gccatatagt gtgcgctaac gaagttaaag ctggtgtgca tgttcctagc tcgttcagat 300

<210> 30970  
<211> 280  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C11

<400> 30970

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aaaaacaaca agagcagctt taaaagacca aaaggagcca cagcactagg aacaagcaac 120  
ccaaccacac tccgagaaac tgatcaagaa gtcccaaatag cctcttgtga cgaaaaaggc 180  
ggactaaaaa aagtcaacag ggaactacac gaataaagtg caaaaaaccg cggaacaacc 240  
agagaactca gcgaaccatg acacgactac tcacaaagga 280

<210> 30971  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C12

<400> 30971

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ccccgccgg gcgtgcaggg tggacgacac cacggccggc cgaacgaaca ccgccactgc 120  
acgactccac gcaagaccgc aatcgcaaga gacgagcgtt gcgccgcgca aaaaccggga 180  
cgtgacgaaa gccgccattg acagcatggc caaaggcacc tcaatggatg atgatgatat 240  
cgagaagacc gatgcatctg ccaagaaaag caagaaaaag aagaccaaaa ccaaag 296

<210> 30972  
<211> 323  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-C3

<400> 30972

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attcacacta agaacatgaa gctagctgaa gatgttaatt tggaactcat ttcaaaggat 180
acccatggat acgttgggtgc tgatcttgct gctctttgta ctgaggctgc tcttcagtgc 240
attcgtgaga agatggacat catagatctt gaggatgaga caatagatgc agagatattg 300
aactcgatgg ctgttacaaa tga 323

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<210>      30973
<211>      372
<212>      DNA
<213>      Zea mays

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<223> Clone ID: LIB3067-044-Q1-K1-C4

<400> 30973

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cgtcaggccg ccgccggcaa gctctcctc ctggtcgccc cgcctctggc ggcttccctc 120
gtcgcgcgacg cgcgcccgtg cggccacgcg cagacgctcc tcgtctcctt ctctccgtc 180
ctcaggccga acccggaccc caccaacccg acgcgcgtca ccaccacagt cgtcacccgc 240
ctccgcgtcc gccgcctcgg cccgcaccag atccgcgcgc ccgtaggcgt ccccgccgtc 300
gagtcggagg tcgcccctc gtccgccag gaccgcgcca aggacatcct cgtcgtcgtc 360
ttcggcctcc tc 372

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<210>      30974
<211>      406
<212>      DNA
<213>      Zea mays

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<223> Clone ID: LIB3067-044-Q1-K1-A8

<400> 30974

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ctctctctgg gtttgtccgt gtcagggcg atgcagacag ctcttggac aggctgtggc 120
agaagaagaa ggctgatatc aagcagtaga ttttacatct agtttaccaa gaattggaca 180
ctgccttagc tatgttttga attcatgtca ctatatgcaa tggtgtgatt tcagctggta 240
ccttaaactc gaagatttag tatctttgtt ggggtccttc tgagtttgat gtgtgggtgtt 300

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cgtttaattc ccttgtacaa cccatttag tatcattgtg atgattttgg attcaatctt 360  
gctcgagtca gggtagcatt ccaataaaaa tataaagagg aagaaa 406

<210> 30975  
<211> 405  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-044-Q1-K1-C5

<400> 30975

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tgcgctcaaa ggtggtctca gcaaactact taaacagggtg tcagatccca ctctgcctct 120  
gtgctggaaa gggcagaaag cattcaaattc tgtgtttgac gtcaagaatg aattcaagtc 180  
aatgtttctg agctttgccca gtgccaagaa tgccgccatg gagatcccac ctgaaaacta 240  
cctcattgtc acaaaaaatg gaaatgtgtg cctgggcatt cttgatggaa cggctgccaa 300  
gctgagtttc aacgtaattg gagacatcac gatgcangat cagatgggtga tctatgacaa 360  
cgaggaatcg caactgggat gggcgctgtg ggcattgcact aggag 405

<210> 30976  
<211> 321  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-043-Q1-K1-H1

<400> 30976

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actctgctac taggctggag cctggaggga gggacgatga tccatcagat gggctatgtt 120  
actctgtaga tcatcgagat gtttaattagg tctcttggtc agtgcagctc agccaattag 180  
catcttcttt cactttttgc ctttttgccg tgttacttag atcattatcg ttcgttaata 240  
gcygtgctaa tgagatggca aaaaattnaa ataaagtttt ctaagaaatt aagtaaaaaa 300  
aatataaaaa aaatgggcgg c 321

<210> 30977

<211> 421  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 <400> 30977  
  
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 gccgagaagg cgcccgcgga gaagaagccg aaggcggaga agcgggtccc cgctggcaag 180  
 tccgctgcca aggagggcgg cgagggcaag aggggcaaga agaagggcaa gaagagcgtg 240  
 gagacctaca agatctacat cttcaagggt ctgaagcagg tgcacccgga cattggcatc 300  
 ttctccaagg ccatgtcgat cttgaactcc ttcattaacg atatcttcga gaagctcgct 360  
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 c 421

<210> 30978  
 <211> 306  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-H12  
  
 <400> 30978  
  
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 gatgacacgc acaaaaagag aaatggaccc aacatcttct atagtcgatt ttggtaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
 aatgaaaaaa aataaaaaag aacaaaaaat ttgtactact ttaatacaac ttaaaacaat 240  
 ataaatggta ataataaaat taaatttatt ggctttgatt tttataattt aataaattga 300  
 taaaac 306

<210> 30979  
 <211> 290  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-H3

<400> 30979

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aagtctggag gacttattta actactgcag cagaaagttc tcccttaaaa cagtactaat 180

gcttgctgat cagatgatca gtagagtaga atacatgcac acaagggtgtg ttctacatcg 240

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<210> 30980

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H4

<400> 30980

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actatgtgca atatgtttga atgcttcaaa ctttgtggg gaaacctttg tatgttgaac 120

ctctgttggt gaagaactag tgtgctggaa ttgtgtaaaa aaaaaaaaaa aaaaattaat 180

aattaattat aaaataataa ataga 205

<210> 30981

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H5

<400> 30981

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aaggatagaa caaacaggag acagatggcg gctgcagcga aggcgtcgtg gatggtggcg 120

atgagcgtcg gggccgtgga ggcgtcaag gaccaggcgg gcctctgccg ctggaactac 180

gcgctgcgct ccgtccaccg cgccgtcaag gccaacgctc ccagcttcgt gcaggccagg 240

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atgtacctta actgcttggg cccaactag ctagggcctc tgctagtttc 350

<210> 30982  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-H7  
  
 <400> 30982  
  
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 tatgtgatta acggtttgac tggacctatg agaatggtaa gtttatttac gtgggggatg 120  
 gaaacatgaa cattaatgaa tgtgcaaattg ggttgaggtc ct 162

<210> 30983  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-H9  
  
 <400> 30983  
  
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 gctgaaacga ttgaaagagg cctctccgtt agctttgaag gtctcactgc gatcgatagc 180  
 cgagggtaga tatcagacac ttgatgagt ccttggtccg gagtaccgca tgtccatgaa 240  
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 caaggacttc actcctaagt gggatcctcc tgcccttgag tatgttacga atgacatggg 360  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-044-Q1-K1-A1  
  
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tcgtgtagcc atcagccttc tcatcgccac caatggccac tgccgaggtc cagaccccga 180  
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<210> 30985  
<211> 329  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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<400> 30985

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cctgcttgct aaactttacc aagtccagta agaaatgcaa gagcgaatag ctgtgagctg 180  
cataggagaa acgaagattc ggtccagcta taagctggat ttcacactga ccagtgatca 240  
cctatgtcaa accatgcctc tgagcaggca agagccagat tgcaccacag cattaagcaa 300  
tacactgcgt agtgcaattt gcaaagcgc 329

<210> 30986  
<211> 265  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A11

<400> 30986

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tgggatgaaa gcaccggatt gattgatgac tatcagctgg agaaaagcgc tgttcttttt 120  
gggccaaagt tgatcagcgc tgggtgcaagt gcatatgctc ggctatatga ttatgaccgt 180  
atgcggatgg tatgcctcaa gcagatggca ctacttctag cagacttggc acatactgtg 240  
tgggctagct gcagctggcg tagac 265

<210> 30987  
<211> 301  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A12

<400> 30987

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tcccaagtac agcagcagaa ggcaggggga cataaaggag aggttgaaga atgcatacta 120  
tgctcttcac aaggagttta ggagcatttt cgaaagcatt gtgacagatc aaacagagat 180  
ctctgatgat gagaaaagtc ggttttacga gatgaaggcc tccgcttggg accaggtaac 240  
ctaccatcct gaatgggtcc agaagtcaag ggaaatgttc aagtctgact gtgaggacat 300  
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<210> 30988

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A2

<400> 30988

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taagacagat cgaagccctg catgagacaa ctgctcaaac ggcagaggct agggctgatg 180  
cggagagaac cttagactgt agcctacacg aagcacaagc tgaagctgct gcttcagaag 240  
aaggagcaga ctgtagatca gagagtgtca cagagattat tacggataac agtcctggag 300  
accgagattg caactcttag aacagagcat acacagctga accgatctct ggaaaaggag 360  
aggc 364

<210> 30989

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A4

<400> 30989

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gcactgcagc agctgcagct ggccctcctct gggagttgag ctgcggcct gagctcattg 180  
catttgggtt ggaaaagcaa gccgaggcgg tggagtgtc gttagacaac ttgctggatg 240  
ctctcactgc cagacggctt cgtctgggcc gatcgataac tcggaaacag agacatagta 300  
ggaactgcat atagggaaag aagaaactca cagtaacaga ggagcatggg gtgccatcaa 360  
gtggaaggct gatttcattc ttttttgtag aactcaggag ctgatcattg tcaacaa 417

<210> 30990  
<211> 199  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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aagccgacac tgttgcagct gttcggactg ctgcagctgc aatccatagg agagaaaaat 180  
actggagaag cctcagccg 199

<210> 30991  
<211> 406  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A6

<400> 30991  
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aaggagaagc ttgttgacac caacggcgca ggtgatgctt tcgttgaggg cttcctctca 180  
cagttgggtc taggcaaggg cattgaagac tgcgtgaggg caggttgcta tgccgcaaac 240  
gttatcatcc agcggccggg ctgtacttac ccggagaagc ctgacttcaa ctagtgcaaa 300  
actgaggcac gtcattgagag ggactgttat aggcacactt aattgttaac cagtgcgtgg 360  
ttcgggtgtc acacaccctg tattcttccg aggccttctc tctgat 406

<210> 30992  
<211> 326  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-A7

<400> 30992

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cctaggagtg ggggccgtcg ttctgttgct atttttcatt ttcaagtatt ggcagaagaa 120  
gaaaagggag gaacaacatg cacgtctact aaagctatct gaagaggatg atgacattga 180  
ggttgagctt ggtcttagag actgataatc ttcaatgtac agcaagagta tctcggctga 240  
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<223> Clone ID: LIB3067-043-Q1-K1-G9

<400> 30993

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catcttgaat cctcgatctg gacatggtag atctagcaaa gtttttcatg gaaaagtgga 180  
acccatattt aaggatatgc tagctgagta gaagcatgca tcttatctca agattggatc 240  
tgtgttgctg ctactactac gaactttggt atgatctatt catgctttcc aatatcatat 300  
ttattccggt tgtttcatac aacc 324

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<211> 215  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A7

<400> 30994

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aatttttaggg cccttaataa tttctaattg attattagga ccttgggtaa ccttgacggt 180  
ttcctgtttc ttaattgggtt ttacacttgt ttgac 215

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<211> 65  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-A9

<400> 30995

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aagaa 65

<210> 30996  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-C4

<400> 30996

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aggcgaaaat gatctaccgc aactggtcgc tgctctcgtc cacagacgtc attcgtggcg 180  
gcgtcaccac cgtcggtctc gccggtatct tactgttggg cggcaaggag aaattcaatg 240  
gttatctgtg ccgagaaggc gagaggctta cgcagcaaga cagagccgct atggaccgac 300  
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ttcctgcgtg cctaccagaa c 381

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<211> 316  
<212> DNA  
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<223> Clone ID: LIB3067-001-Q1-K1-E11

<400> 30997

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 ctgctggaca gtaattatga gttagatgta ccttcatcag gggtttattt acctctatga 180  
 tattacatag tataccttgt acatcagaat gatacaaac aataagtccc aaaaaggaag 240  
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 aaactaataa aaatat 316

<210> 30998  
 <211> 164  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-E2

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 atccctccta tagtgtctcc tatattcaat tcaactgtcca gttc 164

<210> 30999  
 <211> 86  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-F12

<400> 30999  
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<210> 31000  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-001-Q1-K1-G12

<400> 31000  
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 gttaaactgc tgaatatgtg tgtgaatagt gaattgatga gtgatgagtt gtgttaattt 180  
 ggtgttatat tgatatgggc tgtgaaacta tgagtataaa aaaaaaaaaa aaaaaaaaaa 240  
 aaaaacaaaa aataaaaaaa gataataaaa agctaagata ataaaaaaa aaaaaaaaag 300  
 atacaaatgt tatactacat aacatggggg cgctccattt tagagacca agtttgattc 360  
 cccatatttg cacaaagtta ctctttcatt tgggaacca aa 402

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 <211> 417  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A1

<400> 31001

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 cagctccctc ggtgcttata tctgctgct gtacctgct ctgatcagtc ctatcgttca 180  
 cgacttctac aactacgaca cggagaagga agaattcgcg cggctgtttg cgaagttcac 240  
 ccaggacgtg gcgctagttg gagctctcct cgtcttcctg ggcataaga actccacccc 300  
 gaagcggcag ggcaagaaga aggctcacia ggcaagacg aactaattag aagttgctcg 360  
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<210> 31002  
 <211> 247  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A11

<400> 31002

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 ttactggca gcgagtacgc cctcttcacc gagcgtgac attcgctctc caggctcgct 180  
 ggcgtcgatg tcacgaccga tgctgacttc cgcgagggtta acctatctgt ctactaatac 240

atgcgac

247

<210> 31003  
<211> 198  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-A7

<400> 31003

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accaaacaga aaggtgcaag aacttttggg cgcatggact gcgctacgat cttgagatat 180  
ggtccatatg gatgtcat 198

<210> 31004  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-C7

<400> 31004

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acgagctgca cacagacttc gttctgaaga atccgttcta tgagatggag atgccgattc 120  
ggtgcgagct gtttgaccac aacctggctc aggtgatcca gaaggaccga gttgcgctcc 180  
tgggtcggtg aaattggaaa gcttttggtc ctaaccatac catgtatctt gtactttccc 240  
ccctttttct acattatgct cggacttact gtgcaattgt ctcggccgaa gacagctggg 300  
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aacct 365

<210> 31005  
<211> 380  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-002-Q1-K1-D2



<400> 31005

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gggcatcaaa caattctttg ttgctgttga gaaagaggag tggaagtttg atacactttg 180

tgatctttat gatacactca ccatcaccca agctgttatt ntctgcaata ctaagagaaa 240

ggtggatttg gctcactgaa aaaatgcgta caaataactt caccgtatca gctatgcacg 300

gtgacatgcc cgaacttgga atggatgcca ttatggttga gttcagggtc tgcggcatct 360

cgtgtgctaa taactacaga 380

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<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-E7

<400> 31006

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aatcaacata tgagaggtga ttattttaat ttgcaatttg tctacataat aaattagata 120

cgaatttgtt tgtcaaaaaa aaaataatac aaaat 155

<210> 31007

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-002-Q1-K1-G3

<400> 31007

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gggcaaagag atgtcgtggg aaaggaacgt gtcgtcctcc ctagatcttt cactttggcg 120

aattaggagg cacgtgtgat aaataagagt cttgctagtt cgtcgtcgtc catgttgtca 180

tagatcctgt cttgtgtgtt catgttactg tgatgcaggc aattgtgtgt tgtgttcggg 240

cgttatttgc tgtgttgtgc gttgccaatt tgccagcttc agattatgtg tgaataaaaa 300

agag 304

<210> 31008  
 <211> 399  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-002-Q1-K1-G7  
  
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 gctggcaagt aaatcataaa ttatccaccc aactgggaac aaaacggaga ggctaatacat 180  
 tctaactacg gcgctcactg atcactccaa tgacgtagta taacttccaa agttttattg 240  
 aatggcccta cagatgtgta tgatcaagca atcttgggct tgggcttaag tttattcaat 300  
 tgcgagtttg ggaaaactcc agcaggagcg atcctgggtc caatagagtt gttgggaaaa 360  
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<210> 31009  
 <211> 88  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-002-Q1-K1-H3  
  
 <400> 31009  
  
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 ggagggttca aataacatgg aaaaaaga 88

<210> 31010  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-003-Q1-K1-A12  
  
 <400> 31010  
  
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 ctgcacggct ccaattcagt tcataccat acacgcgtgc atcgtggcgc acgccactca 180

cgagcgcggc gcccatgcgc ccacaactta ttacgactcg tcaccaacca accaaaccaa 240  
gccacccagc aggtccagtc caggcgtgtg tgctgtgctc tctctaccg gccgccggcc 300  
acgtcacgcc gccgaggcgc ccttggcgtc gccgctgcag tagtcgcgaa cggcctcgag 360  
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ccccttggtc gggcccgtgg tggt 444

<210> 31011  
<211> 89  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-B10

<400> 31011

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ggaaaaaaaaat aaataacagc gagacaaac 89

<210> 31012  
<211> 142  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-E9

<400> 31012

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agagtataat ggttcacaaa ttacgtacac ataaatacaa caaaaataaa tctaataata 120  
agaaacctaa aattaaatta at 142

<210> 31013  
<211> 342  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-F9

<400> 31013

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tacaacactg ggaaagccaa aaccttgccc atctcaatct gattggacta gatccacatt 120

tcgctatctg cagttgtagc aataaggacc aggccgatac gcgattgcc a ttagtaaacac 180  
atgctcaatg tcaaagggga ctggcactgt cctgtacat taacatcaac cgctgtgggt 240  
gttacgctca cgctcaccgt tacagttgcc attgccatag ccctagctcc tgttcctttc 300  
gttccttctt ttctcgatcat gttcaccggc tttgcctttc aa 342

<210> 31014  
<211> 91  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-003-Q1-K1-G7

<400> 31014

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ggaatataaa atgaaaggaa aaaatagaaa a 91

<210> 31015  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A12

<400> 31015

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ttgagagcta tacctacaag ctcgcaatgt attccttgat ttctgcttcc cctaactctt 180  
aggtgcttaa tgccaaactt tatgaatctc tttaaataga tcctatctag ttcaatacac 240  
tctggctctt tttaaataga cagacatatt tttatatgtc tactttatac aattcaataa 300  
ctcatgagaa ctttacia 318

<210> 31016  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-A8

<400> 31016

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 acggtcgaca agggcgccgg ccacaagcaa ggtccaaact tgaacgggtct ttttgggaga 180  
 cagtcgggta ccactgcagg ctactcctac tctgcgggta aaaaaaaca ggctgtagtc 240  
 tgggaagaag acactttgta tgagtacctg cttaacccta agaagtacat tcctggaacc 300  
 aagatggtct tcctgggct gaagaagccg catgagcgtg ctgatctta 349

<210> 31017  
 <211> 54  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G7

<400> 31017

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<210> 31018  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-G8

<400> 31018

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<210> 31019  
 <211> 237  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H2

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 ctgagagctg agtgccgcct tggttgctcc gtactggact cgattcctca tcgcagcaga 180  
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<210> 31020  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-004-Q1-K1-H8

<400> 31020

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acacaaagtt ttaacagcaa catattatag cactctgcag cgggatcca tgtggctaaa  180
catcataaca taaagttctc ggcagtaaga ggcagcagca ataattcctt cacaaacttc  240
taacttcaaa aatataaagt aacacttagg ccagcattcg gccgttcttc aaatcaaata  300
cttattcttc cttctcagcc ttctcgagcc atttgacata cggctccaga gctttcacg   359
  
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 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-B7

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atcatctgga gcttttagat ttcttgttg gttgctacaa gaacttggat attgcattga  180
actgtggaaa tatgttaaga gaatgcataa agtaccctac acttgcaaaa tacatattgg  240
aatctggtag ctttgagctg ttctttgagt atgttgagct tccaaacttt gatattgctt  300
cagatgctct gaacaccttc aaggatctgc ttaccaagca cgaagttgta gtcgcagagt  360
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<210> 31022  
 <211> 439  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-F12

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acaagcaacc atagtagaaa gacattcaaa tgctcggggt accttggggt catggagggtc 180

tgaatgtatc atccaaaaga ttgatgatac ttgttcatgg cttcgaaggt tactaagaag 240

gcctgaaatt gatgacactg aagcatgcct taacatggag ctaattgagt caacagccac 300

agaaaaatat gttttgcctt ctcttcaaa acctcctcca agttcagtag tggaggacat 360

caattntgta acatccttca cacttctata aacagtaata ttatctntaa ttgttgagaa 420

ctgctntgca ctgttcctt 439

<210> 31023

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-F8

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aaataatact gtcaaagaac aagtcgacta cttttttgca tcatatttct gtttgatttt 180

gtggatatga aatgccatca acttgaagat cagcattggt actattttgg ttaattaaaa 240

aaaaaataat ataataaatt aaataaatat taataaaata tatattaata ttattatttt 300

ataaa 305

<210> 31024

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<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3067-005-Q1-K1-G2

<400> 31024

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ctatagagtc aaataaattc aatt 144

<210> 31025  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-005-Q1-K1-G8

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ccagctaggg aaacttgcag agtaactgat acgactacag caaagagcag cagggttaagc 180  
tagattgtta ggaaagagca cctgcacctg gctgtctcca ttagtggata tacgagacct 240  
ggtactgaac tgggtagcca ttaccgtaat aagggtccatg ggcaggttgc atcgtgtaag 300  
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aaggattgaa tgga 374

<210> 31026  
<211> 178  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-B11

<400> 31026

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tatagtctga ggtgtcggaa tcacgactga gcagattcaa cagcatctgg atgagaat 178

<210> 31027  
<211> 380  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-006-Q1-K1-B5

<400> 31027



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 gatgggcagg accgggtcca ggggtcaggt gaccaggtc atatntaggg ttcttggatg 180  
 accagaaccg gctcatcatg aggaatgtca aggggcccgt ccgcgagggg gacatcctca 240  
 ccctgctcga gtccgagagg gagggcagga ggctgcgtg aagccctagc gttcttgggtg 300  
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 <211> 201  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-C2

<400> 31028

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 aatatcccca catgataacc ccgaaatttg tatcgttcaa agttcaaacc atggatcct 180  
 aattcaaaaa ttttgccctt t 201

<210> 31029  
 <211> 52  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-006-Q1-K1-D10

<400> 31029

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aa 52

<210> 31030  
 <211> 57  
 <212> DNA  
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<223> Clone ID: LIB3067-006-Q1-K1-D8

<400> 31030

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<223> Clone ID: LIB3067-006-Q1-K1-E5

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tgttagactc gtcagggagc tggagaagaa attcagcggc aaggatgttg gtgattgttg 180  
ctacaaggag gattgtgagg ccaccaaga agggttcagc tgttctgcgc cctctcacca 240  
ggactctgac tgctgttcac gatggcatct tggaggatgt tgtctacca gctgagattg 300  
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caaaggggag gaacaacact gaatacaagc t 391

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<211> 179  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B1

<400> 31032

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aaattcaatt cattggctct gtaattacaa cgtattgact gggaaaacct tttctttac 179

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<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B2

<400> 31033

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gaaaccctgg tgtgactgct ttgagctaaa tattcttgat tctatgatat tcttttgatg 180  
tcttgatat atttttcata tgtttttctt tatattctgg ttttaatttt atatgttttt 240  
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<211> 321  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B3

<400> 31034

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ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg atgacattaa 180  
ggtcttcgcc gcggtgccgt cgaagcctgg cgctgagttt cctaatacgc cccgctggta 240  
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gcctgcggga tcagctcctg c 321

<210> 31035  
<211> 289  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-007-Q1-K1-B5

<400> 31035

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agtatttgct attgtcaagt gtgccttgct tgatgcaagt tgtgttttcg tatcattatt 180  
attatgcacg gccatcgta gtgtatggct tgtatgggtt attgccaaact taataaaagc 240  
acactctgtt tgcctaaaaa aaaaatataa taattattat attaaatat 289

<210> 31036  
<211> 96

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-C10  
  
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<210> 31037  
 <211> 463  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-E12  
  
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 ctctgtacgt gttcacgctg acgctgccgt ccatggcggc catgttctgt gtgttcggcg 180  
 acgagctttt gacctatttg tacgcttttt cgcagtttct gatatttcttg ttgcttgtct 240  
 ctgttgtttt aatattgcgt ttcttttttt ttttttttta gttatttttt ttttattttt 300  
 ttttttttga ttttattttt tgtttttttt aatttattta ttttattggt attttatttt 360  
 tatttttttt attttttttt tttttgtttt ttgtttttat atattttttt atttgtttat 420  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-007-Q1-K1-F3  
  
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 aaggctaaat taa 73

<210> 31039  
 <211> 188

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-A6  
  
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 caacaaggag ccggaacat gttttctgta tcgttttagg tctttgttcg gttaatccta 120  
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 taaaaata 188

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<210> 31041  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-C11  
  
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 ccgggtcacg tccgttattg cagagtgcag acaacgtagc atagactaac aggacaacta 180  
 actgcacacc gaccgatgcg gcagccgcag cgcgtctcct ccttcctccc gtgcataggg 240  
 cacggacgga ttacggggct cagttgcagg gctccctcgc gaacccgacg cgcgagccgg 300  
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 ctttcacttt c 371

<210> 31042  
 <211> 246  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-D6  
  
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 ttgacaggat cttattttaga cgctgctatt aattatattt atacgccttg tcgacgtcgt 180  
 cctttcgact cttgtgcgcc atcgccgggc cgggcgggtcc ggctcagttg cagttgcatc 240  
 tggagc 246

<210> 31043  
 <211> 398  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-E10  
  
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 gtgtcttcca caggaattac taaggatact actggccata gtgcagatgg taaagctctc 180  
 acttcagaac cgcatatagg ggaaacacat gtcaactcag cttcagaatc cataccaaat 240  
 gacgcattct cccaaccca gagcaaaatg aatgggtcga ccaagaaatc attagtcaat 300  
 ggtgttttgg atcaacaaaa tgccaactca tggctagaat cctcgggaaa tgattatcct 360  
 agctacacta actcgagcag tgctttgcca cccgcgag 398

<210> 31044  
 <211> 154  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-008-Q1-K1-G5  
  
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 aaacacaaaa aaaacaaaaa taaaaactat taag 154

<210> 31045  
 <211> 168  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H11

<400> 31045

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 actagtaggg tgttactgta gttttcccag ttgaatttaa tttgcaactg agtttgtact 120  
 caaaaaaaaa aaaaaaata taaaaaaga aaataaaaaa aataaata 168

<210> 31046  
 <211> 215  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-008-Q1-K1-H3

<400> 31046

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 gatggattgg ggcctgagtt cgattctgca ttctgcttga gcaataataa gtctgagcta 180  
 ttctgtcaa aaaatataat agtttcta taaat 215

<210> 31047  
 <211> 64  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-A6

<400> 31047

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 agaa 64

<210> 31048  
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 <213> Zea mays  
  
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 catccaatt 189

<210> 31049  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-009-Q1-K1-C3  
  
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 gaaaaaataa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaataaaa aaaataaatg 120  
 aaaaa 125

<210> 31050  
 <211> 334  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 aaggtgaact tcaagccaca aattccaatg aaattaacct ttattagatc aaagattcgg 180  
 caccctatgc gcaacggcat ttcgagggtc atgatcacac cttattgaca ttctacata 240



ttgtggatat gtatgcgcct ttatacactg ggctctgaaa aactgtttttt gggagatgtg 300  
 gggttgttgc tctgtgaaaa gatactcata ggtt 334

<210> 31051  
 <211> 131  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C6

<400> 31051

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 catgatatac t 131

<210> 31052  
 <211> 404  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-C8

<400> 31052

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 gttaggggtt tacatgcagc taccttgtaa ttcggttggc ttccagaaaa aaaaatgtga 180  
 gcctggacac gtcaagtgc cacctcagtt ttgttgtaaa tttgttacta gtttgatagg 240  
 attattagta tgtacttattc aggaaaagaa ttctcagtat gtgttttggc tgccattca 300  
 atgataggtc agtgattaac accgaagcat tgtgctcttg tgagatgctg tgttggtctt 360  
 aatatattga cggtactgta ccatggttta aaaaaaaaaat aaaa 404

<210> 31053  
 <211> 59  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E1

<400> 31053

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<210> 31054  
<211> 70  
<212> DNA  
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<223> Clone ID: LIB3067-009-Q1-K1-E3

<400> 31054

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gaaagaaaaa 70

<210> 31055  
<211> 375  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-E4

<400> 31055

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ttttttatatt ttttttttta tttcttttaa aatatctttt tttgtttctt attcttgctt 180

ttatttttta tgttttctta ttatttactg tttattattt tttgatgttt tattttattt 240

ttctattaat tatttttttt ttttttttat tgtcttcttt tatttttttt ttcttttatt 300

tttttttttt tgtttttggt atttattggt tttctatttt ttttcttttt tttttttttt 360

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<211> 151  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-009-Q1-K1-H6

<400> 31056

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ttctctcttg taacgtatatt tcactttctct t

151

<210> 31057

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<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-010-Q1-K1-B8

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gcttgctggg gtagtagagg tgcagttggg tttgttaatc gctatcctga tgctgatctc 360  
agaactgcta aagatggaca atatgtaaag gttacagggg ttgttacctg tggaaatttc 420  
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<210> 31058

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-C8

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gttcgtagga ctacctattg tgacttgctg tatcgtaatt aatatatata tatttggatg 180  
tctatgtaaa taaaataaat aaataaaaaa taataaaaaa aaataaaaaat aaaataaaaa 240  
taaaaaagaa aaataaaata 260

<210> 31059

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-E4

<400> 31059

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aaaagcaaaa aaaaaaa 77

<210> 31060

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-010-Q1-K1-F6

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aggggactaa aaaaaaaaaa taaacaaaaa aaataaaatt caaaata 107

<210> 31061

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-C5

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cggagtaatt gagaactgcg aa 82

<210> 31062

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-D5

<400> 31062

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tcggctatat ttatggaaga gctcatttcc cgtttcatgg acgagtaaca gctgtcatgg 120

agacaggtag aagttcctat ttatacatat ttccaatttg ggctgtcatg atacactact 180

accaactatt caattggac 199

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<211> 111  
<212> DNA  
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<223> Clone ID: LIB3067-011-Q1-K1-F2

<400> 31063

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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-011-Q1-K1-H7

<400> 31064

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ttacatgaca ttcatcggca agaaatggga gatgttcaat agcgataaag cggcatcact 180  
tgcgtacgcc agaatccagt gaaggaacgc tatgagtgc cattctcaga attcta 236

<210> 31065  
<211> 313  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-012-Q1-K1-F9

<400> 31065

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ggccaggacg ggaatgaagt tttctttaag atcaaaagaa gcacacaatt gaagaagctc 180  
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atcgatgcta tgc 313

<210> 31066  
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<210> 31067  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-A3  
  
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 gtagtttcgc aaatgtccca tggtatggtg tggatggtt aatttgaaga atccttatgt 180  
 actgaatctc tgcaaaaagc tatgttgtgg acagaagtgt aacgtgccg atttcttgca 240  
 aaaaaaata tatttatatgt ttactttaa tttgtattat aat 283

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 <211> 205  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-D1  
  
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<210> 31069  
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<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-D9  
  
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 <210> 31070  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-E3  
  
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 ggggtacgg 69  
  
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-E8  
  
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 <210> 31072  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-013-Q1-K1-F1  
  
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 <210> 31073  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-F11

<400> 31073

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tttttttttt tttttttttt tttttttttt tttctttttt taattttttt tttttttttt 180  
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<210> 31074

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-G4

<400> 31074

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gaactacaat ccctgctagt aatccatttg tgctgtttat gtatcgaagg cagcaaagat 180  
gtgtgaagcg gcaatgggat gcttgctgta aggtaatatg tttggcttgc taggcatgct 240  
acacgctatt tggatgtagc aacgttatca ccagctgtat acgcttttta atcgacaaca 300  
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<210> 31075

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-013-Q1-K1-H3

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cgatgtattg aggcagaatt cttccagggt tttgttggaa gatgtctaca ggaaccagg 180  
 tccgctccag tttgaaggac cagggtgccga ttcaaagcct atctcactgt gcgtcgagga 240  
 tcaagactac atgggcagga taaagaaatt gcaggaatac ctggagaagg tgaagagcat 300  
 tgtgaaacct ggggtgctgc aagatgtcct taaagcggcg ctgagcgcca tgttttctgt 360  
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 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-A10  
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 gggcgcaacta cagttctgtg atgtaatgga ttctgctagt atttgactct tgtgcttttg 180  
 tacagaaaaa aataaaaaata aaaattaaga gaaaaaatat aat 223

<210> 31077  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-014-Q1-K1-B7  
 <400> 31077

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 aagggtgaaca tattttactc ttttgggctc cttgtaattt cattagtaaa atctctactt 120  
 aattattaat gctgcatagt taaaaattta taaaa 155

<210> 31078  
 <211> 226  
 <212> DNA  
 <213> Zea mays  
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<400> 31078

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tcgggctgta cggcagcccc gagaccttcg ccaagaaccg ctagctggag gtgatccact 180

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<210> 31079

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-014-Q1-K1-E11

<400> 31079

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gtcaatgttg gagatggctc tgagacctca cctgggcagc ataatggctc ggtcactctc 120

tcttatataa tggacttttt tggatcaatg cttccaggct aaaatgttct atgaaattct 180

tcatgtctgc ttccactaat tgcttccatt gagcatggcg aggttagatt ttttgcacat 240

ccataattgt tttagacctg ttactttgct ttctcttttg attgtctttg tcagtctttt 300

gttttttttt atcttccaag tggaaacact ttttctaatt gttctatttt actttatttt 360

ttcttttggt tattcttttt tttttattct ttcttttttt tttatttctt ttt 413

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<212> DNA

<213> Zea mays

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<400> 31080

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gggtaatttt aaaaattatt caggatgaaa tattaatata atttaacatt aaaacatatt 120

atataaatta ctataaatgt gcaacctctt ttgaggttcc tggattatat a 171

<210> 31081

<211> 447

<212> DNA  
 <213> Zea mays  
  
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 gagcagctgg tccatgcac cactattct cagatccaaa atgttgtttt catggagctt 180  
 accaacgaag attctgaaat atgcagttca agttacggat atcaagctga agctttacca 240  
 acgcggctat cattcacgtg gaaagtggaa aatttcttgt cttttaaaga gattatggag 300  
 tccagaaaga ttttttagtaa atatttttag gctggctgct gtgagttgcg gataggttga 360  
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<210> 31082  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-A10  
  
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<210> 31083  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-016-Q1-K1-A2  
  
 <400> 31083  
  
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 ttatttttat 130

<210> 31084  
 <211> 87

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C3

<400> 31084

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agagaaaaaa taggaaaaac attataa 87

<210> 31085  
 <211> 155  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-C5

<400> 31085

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atgggtactat ggtgaaacat tgtgtcagtt tttgtgggtct ctgtatggat tttgaagtat 120

gcctaaagaa gtttttgggtg cttaaaaaat aatat 155

<210> 31086  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-D1

<400> 31086

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<210> 31087  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-F5

<400> 31087

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tgtacatata tcatgtttat tggctgagcg aatttcattt atttgagggt agtataacct 180

atattagatc tgcctagtga tcatatctca tctatagggg cgttcggttt atcttttata 240  
 gtttcgtttt aagttagaat ttcttcta atctgtttaact tttattatct gatctgtttt 300  
 actgtttgag gttatttttt ttttttctta ttttctttta tgtgtgattt ttgtattatt 360  
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 atttccttaa tgttttgatt tt 442

<210> 31088  
 <211> 203  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G5

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 gggagaccta tcttttcttc gcagcaggca tcagatctca taggggggtc ttcagtttcc 180  
 aactcaagga aagatgagtt cta 203

<210> 31089  
 <211> 73  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-G7

<400> 31089  
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 taaaggtaaa act 73

<210> 31090  
 <211> 87  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H1

<400> 31090  
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caaaaaaaaaa cgaaaataaa taaaaaa

87

<210> 31091  
<211> 93  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-016-Q1-K1-H6

<400> 31091

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gaatttgga ccggttctgt atatatttta aag 93

<210> 31092  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A1

<400> 31092

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gcagagtatg cgcgcgcact gtgtcgatct gcagtttggc cgttttaaag tgattgtagt 180

gtgtactatg ttcagctcga tgatctcgga gtcgctatat acgctcgctc ccgtgctgga 240

ccgggttatcg atctgatgaa caagaatata ataatatgta tggataacttg tgactggggtt 300

ccgcggaagt ctggctttta ttaccgtgtg attgggtacc tgcacaaaaa taaaatattt 360

taa 363

<210> 31093  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-A12

<400> 31093

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tgacttggtt ttgatttatt tttattct 88

<210> 31094  
<211> 158  
<212> DNA  
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<223> Clone ID: LIB3067-017-Q1-K1-A7

<400> 31094

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aatgctatcc atgcgtcgca ctccaaaaaa aaataatt 158

<210> 31095  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B12

<400> 31095

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cgctgtcctt ggcgggtggc cttccctggg ctacctgttc ggtggcaact gatgcccg 120  
ctggtgcgct caccaaagtt atcctcccct gcctgctgcg tgctatgtct gaatcgtgaa 180  
caaccgttgt tgtcatttca tgtgtgtacc ccgtgcaatg ctttgtgcgc atggttgatt 240  
tctctgtggc aaacttcccg tcctgcatgg gggtgtaagc tgtctctaaa tttaacggca 300  
agtcgtatgc ctgaaccttc atcttaagtt gttgtcgtat cccttcgtct tgtttcgggt 360  
gcaccccgctg atggtatgga ttgggtgctg acc 393

<210> 31096  
<211> 357  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-B4

<400> 31096

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cttcggaggc taggctggat gcctcttctc cttgctgtcg tggatgcctg tttgttggtta 180  
 gggttatttc gtttagttcc ttgtctgtga cgtgttggac tattgttagt agtattcttg 240  
 aagttgtttc gaatgtaatc caatcttata gttcgataat tgaaaaaaaa aaataatatt 300  
 atatatatta attatttatt tattattatt atttttctat tatataaaaa ttaatat 357

<210> 31097

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E11

<400> 31097

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<210> 31098

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-E3

<400> 31098

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 ccaccgagac agtgaagct tgaacgtctt agtttactgt tccaagtgtc gcgaaaagag 180  
 ttttctgtac tagctacata ttttaaagt tattttgaat tatgatgaga aaccaaggta 240  
 tgcacccaag ataattgatg tcctgctgtt ttcgtatgtg ggtatcgaac cccaaagaaa 300  
 tagattcaaa aatg 314

<210> 31099

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-017-Q1-K1-H2

<400> 31099



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aga 63

<210> 31100

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-B12

<400> 31100

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tgggttcttt tcttacgctg cggcacctaa taaatgactt gccttctatg ttttcgagaa 120

acttacatta ttctttttta tataacaata atactgtcta ttcagt 166

<210> 31101

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-C7

<400> 31101

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tggactcggc ctactactgt ggatttgtat gccattatag acttgggtgct gtgaaagact 180

gcttgatgat ttgcgggttt gttgctgtgt aaaaaaaggt cccatggctc ccagaagacc 240

atgaagggtc ggatctatca tgtaattcct tggtatctgc caattatgta tggactaaaa 300

aaaataatat aaa 313

<210> 31102

<211> 514

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-018-Q1-K1-E10

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 tctctcgatc tccatccggc atccagctcg tcccgaact ccgcaanagc tagcttctcc 180  
 ggacttagtc tagggctctc gatctacgct cgcttagatc taagtcctct actcccggca 240  
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 cgccaagtat ggatcctcac tcgaggaccg atgactgagt tcgaagagct tcgagaatcg 360  
 accatagaat gggatgacct aggaagaagg catacgaagc cgtccagcat gtgggaggat 420  
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 cttggacgga agcaatggcc cagaagagct gaag 514

<210> 31103  
 <211> 385  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-018-Q1-K1-E12  
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 gaacactgaa attggcgatt ggtaccgacg catggaagac gcagttggag aaccatcaag 120  
 aatacaggat gcagaagcaa actagaattt tgacaacatt cttttaaata ttttagaggt 180  
 atccgtgcct atgcatggag gctattcaaa ttttttgcca gaatcaagtg tatgcaataa 240  
 tgctctgcca gattattaag cataataggc taatagcacc tgaggaacag tgttttttga 300  
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<210> 31104  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-018-Q1-K1-E9  
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 ttgtgcttgt tgagctatcg cacttgctgt ggccctggaca catgggttct aactgctaaa 240  
 ccagatcaga taattgctgt attgtgggaa ctctacccat ggtaaggcat gcataatggc 300  
 tgtgcaaagc accttttttac actaaaaaca cact 334

<210> 31105  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-G5

<400> 31105

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 aaagaaaaac aaaaacaaaa ataaa 85

<210> 31106  
 <211> 109  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-G7

<400> 31106

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 aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 109

<210> 31107  
 <211> 277  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-018-Q1-K1-H9

<400> 31107

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 accgaagttt tatcgaatta aactcttggt aagagtatgt ttttggacga tcctatattt 180

cgctcctggcg ctactatggt tcagaatggt ggtactacta taagtattgc ttgaaaggat 240  
 caatataatt tgcgtgtcat acccacataa taaaaaat 277

<210> 31108  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A12

<400> 31108

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 aaaaaaaaaa gaaggaaaaa gggatgagga taagaaaaga tgagagcgta cacggagagg 180  
 cgagtgcaag gagagaggag taagatagag acgcctaaag ataaggaagg ggccccgaac 240  
 gaaaaacgtc agggccggaa taaacatggg gatgccaggg aaaaacgggg ggac 294

<210> 31109  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-A6

<400> 31109

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 atgatcatca agaggagcac aatgagcaac tgtctgggtgc cgacgtcagt tcctgttctt 180  
 gatggcgctc ttgaccatgt tcccgggcat ggaggacgat ggcgtgacgg ccttccggat 240  
 cttgaagagg ttccacgccg tcccacggc gtggccggcc gtcgcgaacg cgtcttgggt 300  
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 tgcagcgagt gacttct 377

<210> 31110  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B2

<400> 31110

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ttcgggtgcgc cgatggggca ggcgttccgc aagctgttcg atgccttctt cggcaccagc 180  
gagatgaggg ttgtgatgct tgggtctggat gccgcggta aaaccacat attgtacaag 240  
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caatacaaga atgtgatggt tactgtgtgg gatgttgggt gccaaagaaa gttgaggccc 360  
ttgtggaagc actacttcaa caatactgat ggcctgatct acgtagtga ttcgttggat 420  
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<210> 31111

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-B6

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tctcgtgga atggtcttcc cctccttcgg tcagaagaaa ccctccctgg ttgtactgta 180  
ctaggcaatg cgcacctgc tagatgcct ccgctgaaat ggaaagcgta tgtgtgatgg 240  
tgacatgaag ttcacttggt taattattac catttcagta aatccatgct tcttgcaaaa 300  
aaaaaataca aaaggaacaa agaaaaaata tactagcaaa gcaacacat 349

<210> 31112

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C1

<400> 31112

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aagcagaagg attagtcccc aggtatcggc tggcaattat gaagttggac aggtttcata 120  
 caaatacaac ttgctcaaat ccagaggccc caggagaatg tattgcactc tcgaatgccc 180  
 ttcagcccaa gagacttggg aaaactcact caagacaaag ttcaagcgcc ccttgggccc 240  
 cacaacttta cgaaataaag caccctcgctg gcatgagcac ctgcaatgct ggtgcttaaa 300  
 cttccatggg cgggtaacag ttgcatcaat caagaatttc cagcttgtgg ctgctgccga 360  
 cccagtgag cctactacca acgtggatga 390

<210> 31113  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-C5

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 gtagacaaac tcgggacggt tgcttatcct aaaaattcga ttgtactgcg tggcatgaaa 120  
 tgatcgattc gaagaatatt ttgaacatgc tgccacctaa tcaaaaaatt tcatgtttaa 180  
 cttaaaaaaa aaaaaaaca aaacaaagac aaaaaaaaag aacaaaactg aaaaaaaaaa 240  
 aattacaaaa aaaaaaaca aagaatagat aagaa 275

<210> 31114  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-E4

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 atccgagcct ggactggcct gttagggaaa tctttgcctg agatttcctt gttcggtaaa 180  
 atctcaatgc tgttggtgag tccttgata actgaacctt ccctagatct tgttgcaagc 240  
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 aa 302

<210> 31115  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-019-Q1-K1-F10  
  
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 atgcacttgc cagatcacgt acgcccgtc ctttcgattt cttcccatcc attgtcacac 120  
 tttcgccggt gtttcccgtc aagc 144

<210> 31116  
 <211> 444  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
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 aaccgcagcc actggccagt ctatgcccat gactgcggtg cccaggaccg gccccggttg 120  
 cctgggggtcg ccgcccgtc atgctctgtc gagctcacta gccgggggttc aaggcgcccc 180  
 gaatcgactg ggcgtatcga agccgtcgtg gatcgttcgc actgagtcaa acgtgaggat 240  
 ggagagagca aaacgacctg atcctacttg caccatctgc ataggcacag ggagaataga 300  
 ctgccgcaac tgttttggtc gacgtagaac aaaccatgcc gatgtggcca tgctttcgaa 360  
 cggcgaatgg ccacaatggt gtncaatttg tgggtgtagt ggactggatt actgcctncg 420  
 gtgccatgga actggtgagt atcg 444

<210> 31117  
 <211> 286  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-019-Q1-K1-F2  
  
 <400> 31117  
  
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gtgctgcggtt ccgctagccc atgtctactc tgtactatct cataaaaaaa aatagatcca 120  
 gctgagacgt tgttccctcc ctctttccct gtaccgtggt tcattggtgac ttgtgacaat 180  
 ggatgggtttc tccttgtgcg tcgccccaaaa aaaaagaaaa acaaagatgc aatgatacac 240  
 aaggaaagcc taagagaagc gagcgaaggt ggaagcaaaa cgcgaa 286

<210> 31118

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G10

<400> 31118

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 agccaactaa ccattgaaga gtatcagagg agttggggagc agaacgagga acttgggtctg 180  
 aatgacatgg atacgtgctc tgcagactcg gcttacaaca cgaccaacac ataattatatt 240  
 tagttttgat gtgccgaatg tatttgttac gctatcagtt tactttgatg aactttcagt 300  
 gtgtatacta atatcaacaa cttatatattc ctctgacgat aaacaaaaga tg 352

<210> 31119

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-G6

<400> 31119

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 gccgtgttgc tagaataaag ttggtggcga tcgatcgatc gatctttggt gatgggtgtc 120  
 cctccctgtg tgtttgtggt tagttccagt cgtttgtgag gaagtcagtt atgtttgagt 180  
 gagaggggtg ctctgctctt cggttaactc tgtacttgtc atgaggagag ttttcataacc 240  
 cggagtgtag gaactctgta ctgtactcgg atccttcctt tttcataaaa aaaaaatata 300  
 agaaaaataa aatta 315



<210> 31120  
<211> 409  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H10

<400> 31120

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ccgactgcgt cggcggcggc ggcgatcatg gccgctcaca gggagaacta ctcggccgtg 120  
gctgtcgccc cagcacacgg cgctgcgggt tgggggtctc cttctccttc ttgcttatcc 180  
ggatgcccga acttgctcgc gttctcctcg ggagacctgt ggtgcgccgc tatcgtgtaa 240  
ccttggtggag ctacgcgcca acgtggactc gctgcagaag ctgctcgggc ggaaagccgt 300  
cttcgtagac gatgacatgt tcttcaagga ctacctggtc gtcgaccagg cccggaccat 360  
taacgttctt gaccagaggg tgcagtctct ggaacgtgaa ctcgatgct 409

<210> 31121  
<211> 138  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H4

<400> 31121

ctttcttttg taatcactct gatgatatat atcgtaatct ggtataact tgtaaagtgt 60  
gtaacttgta accattttgt aataaagaat ttacgctgca aaaaaaaaaac taaccaaag 120  
caactaaca aaaactat 138

<210> 31122  
<211> 251  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-019-Q1-K1-H6

<400> 31122

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ttgtaataca gtgaagcagc caacaaagaa gatacaaaag agaccagagt agcggcaaca 120  
ttaagtattc atcgttggct gcttactgt attacaagaa attgctagac ttggattatt 180

tcagttgttt tgaatcatgt actggttgca ccaaaaaaaaa aagaagagaa taagaccgag 240  
ggaacacaaa t 251

<210> 31123  
<211> 311  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-020-Q1-K1-H9

<400> 31123

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ccctaattcg atatgctccc ggtatctttt tgaagttttt aaataacttg aaaaccttgg 120  
gccccacatg ctacgatagg ttgttcccat tcaactgatca ggggacctgc cttacaaaga 180  
tttgccctgtt tctgggttaac aaagccatcc ccaaagctta tcagggatta caaacttgcc 240  
ctttgtagtc gcaccatata gctcaatgct caactttttac tttgacattt ccatttggca 300  
aaattccctg g 311

<210> 31124  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-021-Q1-K1-C12

<400> 31124

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gacagcccca acaccggtgg catccacatt ggcgtctaata tcggcatcac aatcaccaac 120  
accatcattg gcatcggtga cgactgcata tacatctgcc tctgcacctg caaggtgaac 180  
atcacctgta tgacctgcgg ccttagctac ggcattagca tcggcatcct aatgcggtac 240  
atggaccaga acgacgtcac ggacatcaac gtcaacgatt gcactcttga taagactatg 300  
ttcaacatga tgtgtcacgc tgctcaactc cttgatcaac tacgccatta gcctgggtctg 360  
tactgt 366

<210> 31125  
<211> 84

<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-022-Q1-K1-A10  
 <400> 31125  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacata 60  
 agtgggcgga caaaaaaat agat 84

<210> 31126  
 <211> 406  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-022-Q1-K1-A12  
 <400> 31126  
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 atggacattg ctgtaatcag ctacacatta catgcgaccg gacctgaatt attatataag 120  
 aaacctgaag tgtagtcgat atacatgttt tcgtcgggtga aaccactta cttttttag 180  
 gccattgagg tgcaataatt tgatacccat gtatgttaat ctgctaacc acatggaatg 240  
 caatttcaca agttaaatgt gtcgcttgtc atattttgta ggcttcaatg ttaaacattg 300  
 tcacagggtc tcatatatgg gtggaagata aagatttgtc cagggttgat ggtgaggtat 360  
 ttcgaattga tggccaaaac gcccatgttc gcacaaccaa ggggaa 406

<210> 31127  
 <211> 174  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-022-Q1-K1-B3  
 <400> 31127  
 aactcatgct agaagtcgac acttttatga tagagcagat ggtccgattc acaataagat 60  
 cacatgatgg aatggtcgtg aacattctct taacatgata agaaatgcac ataaaataca 120  
 ggctcatgta ataggccatc aagtggagaa gaaatacaga acaattgcta gcac 174

<210> 31128  
 <211> 317

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-C12  
  
 <400> 31128  
  
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 atggagcaga tagagcgagg catgctatgc catggcccat ggcacgcgcg gctgactgtc 120  
 tgactgactc gaacaaaaca caaaaaacga cactgctaca atattatata ctagagctta 180  
 ttaattagct agagataaag agtccttccg aggaccccat cacgccctgc agcgtcatcg 240  
 ccgccgtcgt ctcaattgca ggtgcagggg tcgcaggtgc agttggcgcc gcacttgcac 300  
 ccgccgttct cagctcc 317

<210> 31129  
 <211> 55  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-C7  
  
 <400> 31129  
  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaa 55

<210> 31130  
 <211> 243  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-022-Q1-K1-C8  
  
 <400> 31130  
  
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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120  
 tttttttttt tttggttatt ttttttttaa aattttttat tattttgttg ttatttatat 180  
 atttagggag atttttaaaa aattaaaatt ttatgtttat tgatttataa tattaaattt 240  
 ttt 243

<210> 31131  
 <211> 210

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-G10

<400> 31131

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 tcgtcatttg ttgtaaaaag gacagaatag gttttatggt caggtgtggt taactttcag 120  
 gtaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaagga cagaagatat aaaacttata 180  
 aaatatacta aaaaatgcaa tactgataat 210

<210> 31132  
 <211> 389  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H10

<400> 31132

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 tttaaacaga agtgacacgg aacgaactgt cttagcactg cccttatcat aagatacaaa 120  
 cctagctagg accagatcaa actgccattt cgaggacgct gttgggacct tagacctcag 180  
 ctgccaagac aggagggcgc agctcgtcct cctccttcgg ggtatggatg gtcaccaggt 240  
 ccggaagagg ggtgatcggg ccaaccttgc ccttcgggtc ccagtcaagc atgatcttca 300  
 ccttgatacc cagaacaccc tgtctgagga ggacgtgtct cacagctgag tcgatgtact 360  
 cattcactgg ctgaccagat gagatcatg 389

<210> 31133  
 <211> 379  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H11

<400> 31133

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 ttatttcagt tggctttgca gaatactgat aactagaaaa agtagtagga cctcaccttc 120  
 gtgtattatg atgatgcaca tacaattttc tgagtagaat ggatgttgaa tcatagaact 180

aatgaataat atgaacactc gccttcgccc caaaaaaata tgaaaacggg accctgattg 240  
agaacatgat aaaagaagga aaagatgtcg ctccggcaagt gactatgaag ctagttcacg 300  
aagccatgat tgcaaagtaa aaatgactta tttctggatc gccggaatta cattgaatga 360  
acgggaattt aaataattg 379

<210> 31134  
<211> 388  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-022-Q1-K1-H2

<400> 31134

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ctatggcgac atcatggagt gccaaagcctg ctgaccagac tgatatgaga acgtactctt 120  
atatgcctcg taacgccaaa tacattgggg aggtctctgc acactatcag attgatcatg 180  
gaatgctaaa tgtattgcaa gagaacgcta aactactcaa tcaaatacaa gtaaataattt 240  
taacatcaca ggagtaattt tcaattcgtc tagataatac ttttcaggcc cataacaata 300  
ttgaactttt tcatcacgca agaaggaaca tcaatggtct ttacaaaagc atgagccaaa 360  
tttctgaat aatgagcaag atgtcccc 388

<210> 31135  
<211> 51  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B10

<400> 31135

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<210> 31136  
<211> 390  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-B11

<400> 31136

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gcaactgtgc atttcccctg ggatgtttga cgatctgagg catgcgagcc tgttggtgaa 120  
gatgcaaggt tacgtacttg tacgacaatg tgacctgtgt agctgagtag tctatgtcgc 180  
agtgacatgt aacggcaccc cccttactac taactgacgc ttactcgaga ttgccatagt 240  
tgatcttgta atttggtata gagcagtatg aatgtattta tggtagcttg aatctatgta 300  
tggattcact tcgattttcc atgttcctt gactgcagac ccagattgct accgtattgt 360  
ttcagaattc ctagctacct gttgcctaaa 390

<210> 31137  
<211> 175  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-D9

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cgctctggga cagctaata gttgttcacg ctacgacggg ctgattgggc aagacacagt 120  
gacctgcatg aatatggtaa tacgtctacg aatgtatgca gccacttgca caatg 175

<210> 31138  
<211> 254  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-E7

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ttcttttgta ggttcatgca tccattgtct caagtaggat tctcgttttc actatcactt 120  
tctacattac tgaatagact ggggtatcat tcttttactc cttttatttt tgcttttatg 180  
ctgcggtaaa tttgatggta ttctaataat tttagtatat gtaagtatgg tttgcagttg 240  
tatatattat tagt 254

<210> 31139  
<211> 404

<212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-023-Q1-K1-F3  
  
 <400> 31139  
  
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 actgcggcat ctcccacacg gggtcgttca aggacctcgg catgacctg ctggtgagcc 180  
 aggtgaaccg gctccgcgc gcgcgctgt cgcgcccat cgccggcgtc gggtgcgct 240  
 ccacggggga cacctcgcc gcgctctccg cctactgcgc cgccggggg atcccgcca 300  
 tcgtcttct ccccgccaac cgcctctgc tggagcagct catccagccc atcgccaacg 360  
 gcgccaccgt gctctcgctc gacaccgact tcgacgggtg catg 404

<210> 31140  
 <211> 340  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-023-Q1-K1-F4  
  
 <400> 31140  
  
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 cttcaacacc ctgtaccaac cctaccgaga gggagcttac tatctacata tataccacta 180  
 taaactcaac atgggtaccc aactgctgt ctaccactag cttttcactg aacatccctg 240  
 actattatac acccacacaa cttatgaaac ctaaagctaa gaacgaaacg taccttgatg 300  
 ctgtaatcac aattcccaat ggaaccttgt ttaccatgtg 340

<210> 31141  
 <211> 357  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-023-Q1-K1-G12  
  
 <400> 31141  
  
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cagtgtgtgt gcgcgagagc gagacgaggg agatggacat gtcaagtaga agcagaggat 180  
atgatgtcat tatacatatt tacttcgcga gatatgtagt tctcatgag tcttcgctgt 240  
gcggttttct aaaaaaaaaa aaaaaaaaaa agataaataa aaaaaaaatt acaaaaataa 300  
aaataaaaag gaccatgaaa taaaaataaa tataactaaa aaaaaaaaat aataaaa 357

<210> 31142  
<211> 324  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-023-Q1-K1-H8

<400> 31142

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acgattcttg agaaatcgct atcatgtgtc agctcatcat tcatgggcga ctatgctatt 120  
cacggttctc aacagcttgc caggctctct atcgaaatgg tctgtgcata cctttgctgc 180  
tatgcgttcg ctctgtacta gcagctggac tactggctag aatggtcagt tcttctgccc 240  
tgtttctgtt gctattcgcc tcaacgttgt aaaactgaat tcagaacagt ttaaataatag 300  
ctgtcatctg gtctaacatc tggc 324

<210> 31143  
<211> 123  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A1

<400> 31143

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tcggatctaa gataaaagcg agctgaccaa agcattaaag cagagatgga cctataactg 120  
aat 123

<210> 31144  
<211> 286  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A2

<400> 31144

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acttttggaa ccgttgatgt gctttggatg tgaaagtttt tggacatcag tcggcaattt 120  
gacagcactg tacgtgttag ttgtcgttag gatatgtctc tagccgaaac gctagatccg 180  
ccacaatgtc tacgccccaa ctgtttttct taaaaaagtg ccgcaactgt ttttctaaaa 240  
aaaaaaagag aaataaagaa gtagatgcag aacaccaatt ttttaa 286

<210> 31145

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-A8

<400> 31145

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aactgacaaa cgcgtgcatg cgaacggcat accgtcttct atagtgccac ctaaattcaa 120  
tt 122

<210> 31146

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-B7

<400> 31146

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<210> 31147

<211> 196

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-B8

<400> 31147

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nttctcgttt tggggccttg aggggtgcac tgnntggcgg tgtgaagggg cttccctggg 120

tctggtggct nggttgggtg ggttcaaatt tcgnnatggc gcnnaggtgt nnnngctgca 180

tctttcggtc cgtagc 196

<210> 31148

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D12

<400> 31148

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gtctgactgt acagctgtgc agactaacta acaacagggg ctgcgctggt catcgctata 180

cgactaagga ccgtgggaac tccttataat ccaactgatcc aacacatgct tgctgagtaa 240

gatcttactg aattttaccg tgtgctgtaa acgactggaa ctatactgtt tttctattct 300

gatga 305

<210> 31149

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-D8

<400> 31149

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gatccaccac ttagaaatgt aataccatac attccataac tcgagtgcac agtcaaccat 120

gtaagacttg ttcgattagc tctcaatcca tatggattga gtgggattag atgtgttgaa 180

ttcctaagca agtcaaagtt cttctaaatt ttttttaatt ccatcaatcc atgtattata 240

ggaataaccg aacaagacct aaaagtacag gactctttat gagtattatg ctagagaaat 300

aagcctgaat gttcagacca gccctttttt taaaaaggaa cttggatctt caaaacaaaa 360

tcgttatatg gccttctgct agagaaatca tgcctgcacc aatgcactca tg 412

<210> 31150

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-025-Q1-K1-F12

<400> 31150

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taacgggaaa acaggagaag accacgttga catcatcact ttctacaacg aagtattcat 180  
tcttgccgtc aagtccttgt tgggtggaggt agggcctggc gccagtccaa agaagaaaga 240  
agaggaaaaa ggtcctgctg atgtaggtcc attcccagaa tctccccggc tggctcgggt 300  
cccgaacctc cccgacatgt ctccaaagaa ggtttctgct acccataacg tgtacgtctc 360  
accgctacgg tcatcgaaga tggacactct gctgtccccg agctccaaga gctactacgc 420  
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<210> 31151

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-025-Q1-K1-F4

<400> 31151

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agcagcctag agaagcaccg atctgatgag ggtgtgaaga ttgctgtctc ccagaatttt 180  
ggtagtatga atgaaaaagt ggcaattgca cctacctcaa gttttgagaa tcaagaagga 240  
ttgcagcagc ctctgaagt tcttccaaat gctaaactaa gcaaaaaataa tgaccaagag 300  
aacagtgatg tgcatgatat acaagtgggt gctacatnct gtgattcaaa aggacacaag 360  
tttggatc 368

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 <213> Zea mays  
  
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 gggccacaca tgctacgata ggatgtaccc attcactgat caggggacgt gcaataaaaa 120  
 gatttgcttg tttctgggta acaaagccat tcccaaaact aagccgagat aacaaaacttg 180  
 ccctctgtag tcgtaccatt cgctcaatgc tcagctttca ctttgacatc tgcattagggc 240  
 aaagtaccct gggac 255

<210> 31153  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-025-Q1-K1-H2  
  
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 tcgtgggaat aggcgctagt gttacctgat tcagcttgat gtgaatttga aggttgctac 180  
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 acgcggttca gagtatttga agtggaaactt aaactggaaa gtgtaagata atttccagca 300  
 gagggtcct gtcatacttg cttgtttccc taacgatgat ggtggatgtg cctgggtgcc 360  
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 tg 422

<210> 31154  
 <211> 55  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-026-Q1-K1-C4  
  
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<210> 31155

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-C6

<400> 31155

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taaaaggatc tgaagtgggt aaataatcgt gggtaatttc gtttttaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atataaaaaa acaaaaaata 180

aagtacgcaa gcatgcaaag taataacttt tctatagcgt cacttaaatt caattcactt 240

tcca 244

<210> 31156

<211> 98

<212> DNA

<213> Zea mays

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<400> 31156

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<210> 31157

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-026-Q1-K1-D12

<400> 31157

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tggtggagct gggccttccc gacgggctcc taccgctgcc cagcctggac gaggtgggct 180

acaaccgggc gacgggggttc gtgtggctgc ggcaggccga cggcctgacc cacaccttcg 240  
 gctccatcgg caagcagggtg tggtagaca gggaggtgac ggcgttcgtg gagccccggc 300  
 ggatgcacgg nctcgccggg gtgaagagca aggagctcct catctgggtc accatctncc 360  
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<210> 31158

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-D8

<400> 31158

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aaag 64

<210> 31159

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-E8

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agcggttcta cgtccgagtc gtcgcatcag gtccctcga ttcccggcg gcggcgccac 120

caaccaagct catacatctg aattgactag tccaactcag ggatttcttt ggggaccaat 180

caaactcaag aactaagttt catgtctgat ctcgacgtcc agcttccatc tgcttttgat 240

ccgtttgcag aggcaaatgc tgaggactcc agtgctggtg ctggatcaaa ggactatgtg 300

cacgtgcgta ttcagcagcg caacggaagg aagagtctga caactgttca gggcttgaag 360

aaagagtaca gctacaacaa gatcctcaag gatctcaaaa aagagttctg ctgcaatggt 420

actgtagtcc aggatccaga gc 442

<210> 31160

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-F4

<400> 31160

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tggaacaaaa tgacagccca aatccccaag cacatttatt gcattggctc agtgtcggat 180  
gtagtagcaa aaccatctgc gtaaattggg tgaagatcat gaccagcaac tggatcaaca 240  
tgaaccatt tcctgcctga gagtttgttg cgctcaaagc gtacattgcc ttctttcagg 300  
cagaaaagtg tatgatcctt gcccatgcc acatagtctt caggatggaa gcgggggtccc 360  
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<210> 31161

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-026-Q1-K1-G10

<400> 31161

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atttactttc caaacttcat tattctagaa aaaactcaaa gatatttaat ttaaaaatat 120  
taattctttg atc 133

<210> 31162

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-B12

<400> 31162

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aaaattttta ataaattttt cttttttttg caaaaaatta acatttatta ataattccata 180  
tattttttta taaaattggt tataacttta attttttctt tttaaaaaaa aaaaatcttt 240  
tctttttttt ataaaattaa aaaaattttt tattttttta ttaaataatt t 291



<210> 31163  
 <211> 400  
 <212> DNA  
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<223> Clone ID: LIB3067-027-Q1-K1-B7

<400> 31163

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 gccatcaccg ctctcgctt cgtccctgc gcatccgccc tgcccatgga cgggtggctgg 180  
 tcgaacggcg gcgccacctg gtacggccca gccaaagggcg ctggatccga cgggtggcg 240  
 tgtgggtacc aggggtgccg cgaccagcct gcgttctcgt caatgatcac cgccggcagc 300  
 caatccatct tccaagacgg caagggtgc cgcacctgct accaggtgaa gtgcaccgga 360  
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<210> 31164  
 <211> 334  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-027-Q1-K1-B8

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 cgcgctgct ctgctccgga tcagcgggtc tggcgcgccc tctcggggcc cagccccagc 180  
 ccggcgtggt tctgagccgt cggcacaacc aactcgccc gcgcgcggtg aaggttcttg 240  
 aagaggacgc cgcggggcct tctgcacctg cgacggacgc ctncgagcag tcccggcggt 300  
 tggaggaggc gatcgacagc gccatggcgc ggat 334

<210> 31165  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-C6

<400> 31165

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cgggcgcgcaa gaacctctac atcatctccg tcaagggcat caagggccgc ctcaaccgcc 180

tcccgtccgc ctgtgtcggc gacatggta tggccaccgt aaagaaggga aagcccgacc 240

tcaggaagaa agtgatgccc gccgtcatcg tccgtcagcg caagccgtgg cgctcgcaagg 300

acggtgtcta catgtacttc gaagataatg ctggagtgat tgtgaatccc aagggtgaga 360

tgaaagggtc tgcaatcaca ggacctatcg gccgggaatg cgctgacctt tggcctagga 420

tc 422

<210> 31166

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D3

<400> 31166

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agcgaccagt ctccagagcg ctcccatgg cgtcaggaga tgccggcgcc cctgtcgttc 120

agactgtggt gctgaagggt gtcattccact gccatggctg caagaagaag gtccggaagg 180

tgctcagggg catccaaggc gtgcaggacg tgacggtgga cgctctgcag cacaagggtga 240

ctgtgacggg caccgtggac gccgacacgc tcatcaagag gctgtacaag tccggcaaga 300

agggagtgcc ctggcagtgt caccgccccg ccaagaacag cgagcccgcg ccggaggccc 360

cgtcggctcc gcagcctgcc ggcgacggcg gcaaggatg 399

<210> 31167

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D8

<400> 31167

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aagggaagaa ta

72

<210> 31168

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-D9

<400> 31168

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tgatgctcat atcttctgca gagaagacca aatcaaggat gaagttaagg ctgttttgga 120

attcatcaat tatgtttatg agatatttgg cttcaaatat gagttggagt tgtctacgag 180

accagagaag tatctaggtg aagttgaaac ttggaacaaa gctgagcaac aattgacaga 240

agctttaaat gagtttggga agccatggaa gattaatgaa ggggatgggtg ctttctacgg 300

cccaaaaatt gatattgggtg tgtttgatgc ccttaagagg aaatttcagt gtgcaaccct 360

acagctggat tttcagctgc ccaatcggtt caagctggct tattctgctg aggatgaagc 420

ccaaaattga aaggcctgtg atgatacaca aggcaat 457

<210> 31169

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E2

<400> 31169

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aacggcagtt aactagctag ctagctagca gtcgtagaat gacgatgagg ggtctctctg 120

ttgcggtcgc tctggtcgtg gtggtggccg cggcctgcct tgccgcgccg cggggcgccg 180

a 181

<210> 31170

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-E7

<400> 31170

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tgcagttgaa tgatactatt acatcacact gtaaattgtg agccaagaat gtatcgtctt 120

gcatttggtg agaccgtaag agaaagggtta ttgtgactcg ttacttgtaa atacgtgcac 180

tgactgttca aagaaactaa gaaagacaag gtggagggtgc taccttccca ctacccaaaa 240

aaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaataaaaa aaaataataa accaatttaa 300

aaataaaaaa aaaaacaaaa tatataaagt ttactctaata tat 343

<210> 31171

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-F5

<400> 31171

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gccgggaggg ttggggccgga gcatgttcct gacattacaa attagcccct agtcaccgga 120

aggcttggac cggaacatgg caaagcatgt ttctattggt aagtttgaga tatgctcaag 180

cttagttggt attataaatt agcccctagt gggtgttgcc gccggcaaga tgatgatgta 240

ttgtttgagg tggagtttgc tattatgatg ctacaaagaa tttgtctcaa gggtgagttt 300

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<210> 31172

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<212> DNA

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<223> Clone ID: LIB3067-027-Q1-K1-G1

<400> 31172

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tgaagaaggg cggcaacagg ttcatcaaga ccgccgcata cggccacttt ggccgtgacg 120

acgccgactt cacctgggag gtggtcaagc ccctaaagaa ggcacccgct taagaatgta 180

ttgggaagtt cactggacat gaggttcac ttcgtctggc tctgctgata cctgcaagga 240

ttgctgctgc tgctgcctgc cctggatgtg tgtttgatca gtgactggct gctctgctcc 300  
 atagaagatg aatgaagaga gagatgggtga agaaggcttt ggcaaattggc aa 352

<210> 31173  
 <211> 297  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H3

<400> 31173

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 cacagatgtt atcgctcgag atatggcagg gtgctacgtt tcactagcat tatcgtttgt 180  
 aatttgattc acgctctttt gtacataaga attcatgatg ttataaggta aaaaaaaaca 240  
 atgtgactaa ctaaaggatt aaccaacata tataaaaagg caaacaataa aggaaaa 297

<210> 31174  
 <211> 294  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-027-Q1-K1-H4

<400> 31174

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 atgctctcta cggccatctc catgtcaatt tgctttgcca acaatataat atcagcgtgc 180  
 cgtgccctcg tggatttcca aatgggtata tgcataatgta ctattgaaat tgtcatatca 240  
 gtttgcatac aataccaacg cgcctttgta gatttcacaa tggatatatc tggtt 294

<210> 31175  
 <211> 385  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-027-Q1-K1-H5

<400> 31175

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gtaacacgca aaacatctca tctgaaagag gccatcacca tgagacccca caaatgctta 120

attggcggggt gataaaaggc ggcctacctc cgттаатctg caagccagcc ttaccaccac 180

ttccaattcc aaaacaacca agcaaaacgc taccacacca accaggctaa caccagcacg 240

acaaaacccg cgctaatact aggcccaaac tactggtaat tccccagatc caaagcgaga 300

tgcaccattc ataaaaccat ggcgcctntc ggcaagctcc gagtgagggg ggacgactct 360

accacgacca acggaaaact actac 385

<210> 31176

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E10

<400> 31176

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tctgtggatg attcaagtta cagaattcta aggcaaaatt ggtttacaag aaccacatta 120

ttacagtaca gcccttgttt gtaattccta agattctttt gtttcttcag gtgcagctcg 180

cctcgctgtc ataaaggcaa agcatatctt ctctttctgt cagctcctag ccatggctcag 240

atgc 244

<210> 31177

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-E12

<400> 31177

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agcatcaacy ctgcctgttt taaatctcaa taggtgctgt tttaaacttc agatctcaat 180

atatgactac tgatcgctga atagatttca tgctctcttg attgactgca taaaaaaaaag 240

actgcacctt gcctacaggg aggaaggact gcgcaaggag aacgcca

287

<210> 31178  
<211> 356  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F12

<400> 31178

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tcacacatac agatgaatga atactgagat tgggtagacc tgcgggctgc atcaatgaag 180  
tttgctagac agattaatac ctgcttgaac gttatggata tgactggact caagctgtat 240  
gcactgagcc aaataaagat gctgacgatg attactactg acgatgacct gtattatcct 300  
gagaaaacgg aaactgatta cattgctaata gctccatatg tattttcagc gtgttg 356

<210> 31179  
<211> 221  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-F6

<400> 31179

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gtaactttgt tgccggcatt gttgtcgtga ctctggccat agatcctttt atgtacatgc 120  
gaaatgtaac caagggatat ggaataagaa catgttcata ctgttgtaga cagcatgggtg 180  
gtacaggaat tctttttatt ttcatagtt gattgggtgat g 221

<210> 31180  
<211> 129  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-028-Q1-K1-H2

<400> 31180

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taaattggag tttatgcttg ccatctactc aaaaaaaaaa gaagcaaata aaaaaaaaaa 120  
 aaaaaacaa 129

<210> 31181  
 <211> 175  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-A10

<400> 31181

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 ctgctaaatc atatctcttc tatagcgtct cttacttca attcactgac caccc 175

<210> 31182  
 <211> 402  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-C5

<400> 31182

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 tagtgtcacc taatttcatt ttcttgtcct ttgttttaca tcttcattcc tggtaaacc 240  
 ttgttgttcc ccatcttaat ccctttgcag cacttcccct ttttcccatt tggcttatta 300  
 cctaagaggc ccgctctatt cgcttttca aacatttgcc caccctgatt gccatttga 360  
 actccccttt tatcgccgct ttaatcgcgct ttgctttggt gg 402

<210> 31183  
 <211> 53  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D2

<400> 31183



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<210> 31184  
<211> 461  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-D6

<400> 31184

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aagaaatgag tccatcaggg ctgcaaacc cattgctcct gagtcctgtt gagggctgag 180  
gagcctactg ttggtagctt agacgagctt aaaggaacca agcctggcaa ggcttgaggt 240  
cgtagaacat gtaagtcaag aagggtgaagg ggatcatgta aaagagcttg acaacctgca 300  
cattctatgt gtttgaaata cccactctgc ctattgccat ccaatgtttt tcagagttct 360  
gcatgttaac catcgaaagc aacttgata tgaaaacgca taaagcttgc aggtggtaga 420  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F1

<400> 31185

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tgatcactat tttgctagcc gatttccaaa gttgctaatt gaggtgtaca aggtcttggt 360  
ggtgactgc aaggacgaag aagctttcag taaacatttc aatggaagct ctttatagct 420  
ggag 424

<210> 31186  
 <211> 435  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-029-Q1-K1-F3

<400> 31186

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aactaatcga agtcagcatc tgcattcatta tgcgttatga ctaatttatg gaaggcaggc 180
tgttcgccag gtctatgtat gatgtatccc atacacggat gatgtgcaa aaggctttcg 240
tctgacctgc agctgcttct ggaatctgca tctgtacaat tgtaccattg ttacccctgg 300
ccttgtagct gcaaagcagt ttgttgtaac aattaaatga ggcgccggat cctcacgcca 360
tcgaaagttt gaaacagctn tggttgtgta tggtagttcc aagacttggg gattataatg 420
tgcgcatatt ctcga 435
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<210> 31187  
 <211> 208  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-F4

<400> 31187

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aggaaggaaa aaaccaaaga aaaagacact cataaaaaat aaaaaaaaaa ataaaaaaaaa 120
aggggcctcc tttctatagg acccatgctt ccttaccctt gcttactaat tgataactct 180
cctattgggt cacctaattt cagttcct 208
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<210> 31188  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-029-Q1-K1-H12

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 gcaagattgg gttcgacctt gattatgatg agaaagacac aagctataac aggatcaaga 180  
 tccttgtgac tgaggagttg aagcattact tccggccaga gttcttgaac agattggatg 240  
 agatgattgt attacggcag ctgactaaat cggaggtgaa agagattgca gacattatgc 300  
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<210> 31189

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-B12

<400> 31189

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 ggttgctggg atgataaagg acttcgatga acctggaact cttgcaccaa ctggtcttta 240  
 tgttggaagt acgaagttca tggatgatcca aggtgaacct ggagctgtca tccgaggaaa 300  
 caagggcact ggaagcatta ctgtcgagaa aactggcaag tacctgatta tcggtatcta 360  
 tgacga 366

<210> 31190

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C12

<400> 31190

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 cggccacgac ggcagcgtct gggcacagtc cgagaacttc cccgagttaa agcctgagga 180

ggttgctggg atgataaagg acttcgatga acctggaact cttgcaccaa ctggtctttt 240  
 tgttggaggt acgaagtaca tggatgatcca aggtgaacct ggagttgtca tccgaggaaa 300  
 gaagggcact ggaggcatta ctatcaagaa aactggcatg tccttgatta tcggtatcta 360  
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 gatcgaaca 429

<210> 31191  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-C2

<400> 31191

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 aaaaaagaga aa 72

<210> 31192  
 <211> 77  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-D1

<400> 31192

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 aaaaaaaaaa gaaaaat 77

<210> 31193  
 <211> 270  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-E12

<400> 31193

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 ggaccaacgg tagcgctcta ctgagacaca gtcctacgaa gatctctatg acaacctctg 180

cgactgcggc gattggaccc gcagccgcta cacggccccc gtccacgtgg actacgagaa 240  
ggcggacgat catcggcaag ccccgcaagc 270

<210> 31194  
<211> 151  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F10

<400> 31194

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cgttgatttg cttgccaaaa aagctagcaa c 151

<210> 31195  
<211> 96  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F12

<400> 31195

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gaaaaggaaa aaaaaaaaaa aaaaaaata agacaa 96

<210> 31196  
<211> 352  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-F3

<400> 31196

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tggtcgaggt ccaaggggtg taagccgtgg cggttttaga gggctaggat ggttctaggt 180  
gcagtttgag tttgatgatg ttttccctt gaagcatcat agctgcacaa ttggaaactt 240  
ccatgttatt gtaaccagat atgtttaaag tagcagagca ctttatctgt ggaacttggg 300

ttctcaactg acacaaacgg cttgtacctg tttcgtttcc aatggcacat aa 352

<210> 31197

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-030-Q1-K1-H8

<400> 31197

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gtgatgacac gctctagtgg agaccattac tgcattatcc tggtcctact acacatatat 120

ggctagccta tgaactactg tacctagata atttctgaca agcaggtgca cgagaaccac 180

tgaaccgatg gtcggtatgc acagctcggg tacgagatcc gctcgacaac tgtgcatgac 240

aagatgatgg aaatgtggaa aagcaatttc attgtgaaaa cggctctctag atcgaagacg 300

gatgtgaaat atcatgatac tagcatacat ctgtacatga tggacctgaa ggcaccattg 360

atccctgagg ttgaggctgt cgactatggg aactactaag aag 403

<210> 31198

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D11

<400> 31198

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gagggagacg actattgagt agctggctaa taagtagttc tctgggtggtt aatgggttggg 180

ttatittgag tatatactct atggttccac tccattggat actgctgctg cgtgtgtttc 240

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<210> 31199

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-D5

<400> 31199

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ttcaaattggg aaccttcttct ggttttcgga agtctaaaag ttgcttatgt tgggtcccga 180

agtgtagagg ttcccttggc taataaccag ccctataagg aatatattgg atcataatac 240

tccatttcaa agttacacct aagatatctg ctgggtcgact tttatattca gctcccaaaa 300

atctgtcaca agtttgtgag agcaactgaa ttgtctttac cagcagaagc agcccgatcat 360

ggtggcctgt atgaatcagc acgggtcttc ttatgtccta agagttccat gcaccatcga 420

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<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E1

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gaaagggttaa aaatggaaaa ag 82

<210> 31201

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-E6

<400> 31201

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gaaaatggcg ggcttagtct tgactacag gaagacagtg tgaaggttgg gaaagttact 180

gctgcaggga tgtatttctt tggttttcct gtgtaccgtt ttgaacaaaa taacctggca 240

gctgctgcaa aagattctga tgggtgcattc tttaaaagat tggatagctt tcagccatgt 300

gacatacatg aactgaaacc tggaacacac ttctttgctg tctacggtga caacttcttc 360

aagagcgcta gttatactat agaggttgta tgtggtgaat cttttcctgc cgaaaaggag 420  
atgctacgaa atgtggaggc caagatactc acaaaacgag c 461

<210> 31202  
<211> 250  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F3

<400> 31202

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atactcgatc gatccattca gaaattactt gacacaggta tatattaaaa aacacacaca 180  
ttcaggaata cggggcaaac gatggaaatc taaagaatcc gatgaaaggg tatggaatat 240  
atatttcac 250

<210> 31203  
<211> 72  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-031-Q1-K1-F8

<400> 31203

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<210> 31204  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-A2

<400> 31204

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gggactggtt cccctctgac ttcaccttcg gagccgccac ttcagcgtac caaattgaac 180



gtgctcggaa tgaagatgga aagggggaaa gcaactggga tcacttctgc cacaatcatc 240  
 cggaaggat actggacagg agcaattcag acattggagc gaattcgtac catatgtaca 300  
 aaacggacgt cagattgct 319

<210> 31205

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B10

<400> 31205

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 agcgagggag ctgcagagga gcctccagcc gagcagatgg agacagacaa acctgagggg 180  
 gccacagatc cctcggetta gctttgcagg tgatggaaca tttgtgtgat tgaccttata 240  
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<210> 31206

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-032-Q1-K1-B2

<400> 31206

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 agaaatattc ttggcgagga tctgggtccg cttagcatga atgatctaga gcagctggag 180  
 gaccatatag agatatctct gaagcatatc agctcaagaa agaatcaaat gctacttgac 240  
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 aagcagctgc aagaaac 317

<210> 31207  
 <211> 285  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-032-Q1-K1-E3  
  
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 agccgggctg tgccgtgaaa ctttgggacg atgctcgagg ggacagaaac tggaaacgat 180  
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 agttgggatg ctgggagctt cgaatgtaaa aaaaaaaca caaca 285

<210> 31208  
 <211> 314  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 agtccatcga cgggaaccac ctgctggagg ccggcctgga gggcttctac ggcgctcgt 240  
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 accgggcgcc cggg 314

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 <211> 238  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-032-Q1-K1-H3  
  
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 caacacagga tagtacagtt acacctccaa aattcatttc ccgaagcgag cacatagaca 180  
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<210> 31210  
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<223> unsure at all n locations  
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 aaacacctct ctctctctca tacaacacta gcacctagaa ggttctggga caccttaata 180  
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<210> 31211  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-B1

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 gggatgtcac gtcagtagcg gaggactggg agatcatctg cccgaacgac ggcaagacca 240  
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 aggggtgcact ggaagaggcg caagccactg tggctggttc cccggagaag aaggggctgc 360  
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427

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<211> 445  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-B5

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aacttaattc actgtcccta gctttacaac ttcaacactg gtaaaactcc tactttaccc 180  
aacctaattc ccttgacta catcctcatt tcccttgctg gctgtatagc aatgacgcct 240  
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<210> 31213  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-C5

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ccagagacca gtgccccggc tgagcgaagg ccccgtagct taacgcgttg gcgccgcct 240  
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<210> 31214  
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<212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-033-Q1-K1-C8  
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 ag 62

<210> 31215  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-033-Q1-K1-D9  
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 aatctccaat tcaagttctt tctcgatctt aggaagatcc tacttacgaa tgccaagcta 360  
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<210> 31216  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-033-Q1-K1-E9  
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gtgtaattat aaaactaatc gtatgaagga ggaaagataa acgaattgat caagtctaaa 360  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G10

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ctatcaaact gacatgctac ctgagattct tgatggttca atgctctcta agtgggaaga 180  
cttagcgta ttagcaaagg accagtcttg ctattggaga tttgtgctgc taaatcttaa 240  
tgttggtcga gccgagataa tcttggatga aataggtgct ggtgaggcag cagaaattga 300  
tgctgtactt gaggaagcgg ctgagcttgt tgacgattcc cagcccaaga aaccgagtta 360  
ttacagcaca tatgaagttc agtacgtatt gaagaggcag aatgatggat cttggaaaa 419

<210> 31218  
<211> 51  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-G8

<400> 31218

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<210> 31219  
<211> 97  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-033-Q1-K1-H1

<400> 31219

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cagaagggtt taaaaaaaaa aaaaaaaaaa aacaaaa 97

<210> 31220  
 <211> 55  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-033-Q1-K1-H2  
  
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 aacaccaaaa ctcaaataaa gggccaccta aatccaattc actgcccgac aaacc 55

<210> 31221  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-033-Q1-K1-H4  
  
 <400> 31221  
  
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 tcatcgttga tcaacaaagc aagttgcaag cggtgaaagc gactgcgccg gtgtctctgt 120  
 ccggctagct caagctcctc gtcctgcgg ctacaagtag gaccatgaca gggagagatg 180  
 aaagctccga ccgtagttcg gcgtgcttgt tggtgggaac accggctcta ctagctgctc 240  
 ttagaactgc tgctcacttc tggataaatt atcagttaat tagtatgttt gtatgtgaca 300  
 tgagtgtaga tataatttct cactcaaata atgtcactat gtaattatgt tgatgctata 360  
 aacttaatat atattaatgt ttgaattaag gcattc 396

<210> 31222  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-033-Q1-K1-H8  
  
 <400> 31222  
  
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 accaacacat tcctgggcta gcaactgggtg tggagaagac aagaacaagt gccttaacga 180  
 aacagagccg atctacaaaa ccggatacaa agctgcaact acagactaca gcttgatggc 240

caaagctaag cactactttc gaacattgga gccgaaaggc atacatgttc agatactgaa 300  
catcaccgag ctgtctgact accgcaagga cgggcatcct acggtgtaca ggaaacagtt 360  
tgctcctctg acgaaagagc aaatcgaga cccagccagt tacgcggatt gcacgcactg 420  
gttgccctccc ggagttccag atgtctg 447

<210> 31223  
<211> 130  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-034-Q1-K1-A12  
<400> 31223

cccacgcgtc cgaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaagaca aacaaaaag 60  
gagaaaccaa gcaaacatac acgagcatgc aacctcacia ccctactaat agcgacacca 120  
aaacacaaca 130

<210> 31224  
<211> 295  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-034-Q1-K1-C1  
<400> 31224

cgtcaattac actgcgggat tagcaacaag caagagcgat cgaaaactgt tacacaggcg 60  
ctacaccaag taggtaaaaa caagtttgcg gctgcctgcc gccataccat gccatactct 120  
ggccggtata gctgcagcag attgtatata agggaaaaaa aagaagatac acatacagta 180  
cgaagaaggc aaatgaaatg ccgttcgggc ggtagcctag gcgtgtacag ctgacgcaga 240  
cagaccccgcc cttgggcggt agcctaagcg tgtacagctg acgcgcagac agacc 295

<210> 31225  
<211> 235  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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<400> 31225

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aaaagccgaa gccgaccgac ccaggggtgc gcagcgcaat gcaactagca tccagctctc 120  
tctccccgga ccgttcgccg acgtttagtt tctattgtgc acgtgcatgc atcgtagact 180  
gtttcaggcc gacgctgcgc cggcgccgtt cgcattgggt gcttttactt ggacc 235

<210> 31226

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E2

<400> 31226

tcacaaccaa ggagcttggg actgtcatgc gttcactggg tcagaaccca acggacgctg 60  
ggctacaaga catgatcaat gaggttgatg cccactgcaa tggcacgacg gacttaccgg 120  
agttttctcaa cctcatggcc cgcaagatga aggacaccga ctctaggag gaactcaagg 180  
aggcgttcac ggcgttcgac acggaccaga acagattgat atctgccgcg gagctgcgac 240  
acgtgatgac caacctatgc cagaagctga cactcgagga agtacacgag atgacg 296

<210> 31227

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-E5

<400> 31227

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acgagaagga ttctccaag accggcaggg attcacagga ggcccttgct ccaactgggtg 120  
atgttgcgct caagctctcc aagatgcaag agtacactgg ccgctctgcc cccaccgtta 180  
tcacataaat ttttgaagag tgatttacia tgagttgagg cgcttacaca aattttcatt 240  
caagcctctt gttctatagt tctacttctt gttgcatctc accaatgaat aaaatgtatg 300  
tatcagactc gccccgtttt tttttttgtc catgtactgc aatgcagcgg actgaaccgg 360  
tggcacagca tgcggttaata atcttgtcac aatgacagtg ctgtaatcgg gagcgtgttt 420

cttgtaatct tgtaggaag tgtttctggt 450

<210> 31228  
<211> 66  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F4

<400> 31228

gcttccgttg caaaaaaaaa aaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaagg 60

aagaaa 66

<210> 31229  
<211> 393  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-F6

<400> 31229

tggtcattgc ttgcgctatt tgtcacgtta ccatacttcc attataccca aacactttgt 60

atgaagtacg taccaacagt gaatagaagc acgttggtga gttagctagg cagcaatggc 120

agcatttggt tttaactgag catgcatact ggagaggtgg gcaaagacca aaggagcatg 180

catactggag aggtgggcaa aagatcaaag agccatttga atctatcggt gtgacattgt 240

ctaccattct gatgcattgc aaccttctct ttctgttgta tcttagttac atactgcact 300

attatgtgga tggtgtgttg ggggctcggt gcaaattggt ggatttcagg atctgttctt 360

gtagactgc acttgtttat aaagtagcgt ttg 393

<210> 31230  
<211> 343  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-G10

<400> 31230

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gaagagaata tagaacaaga caactcacta tagggatcta ttttcaatag taaaagaatt 120

attctaagaa gacctattat ggtcttgaat tatgtcatta attctatgta atttgcacatca 180  
 atttcaagaa tatcattgta gttatgtcca aataagtcca tatatgtgag atccatatga 240  
 tggacgctat tttatccgct taatatcata ttgcatccat atatatagat atcaaagtgtt 300  
 aaaaaggtgg acctaattcta aaaaagaaaa gacctggtaa aac 343

<210> 31231  
 <211> 399  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-034-Q1-K1-H6

<400> 31231

tgtttgtgtg cgtgtctcgg agaagctctc cctcgctcgg cagatccgcg gcctgctgtg 60  
 ttgctgcttt gccagcaagc tgccgcgctc atcctcgcgc gccgccgtca tgaagcgcaa 120  
 tccccgcgtc acgagctccc gccggaagtg ccgcaaggcg cactttacgg ccccgctcctc 180  
 cgtccgccgc gttctcatgt ccgccgggct gtcgacggag ctccgccaca agtacaacgt 240  
 gcgctccatc ccgatccgca aggacgacga ggtgcaggtc gtgcgcggca cctacaaggg 300  
 ccgcgagggg aaggtggtgc aggtctaccg ccgccgctgg gtcattccacg tcgagcggat 360  
 caccgcgag aaggtgaacg gctccaccgt gaacgtggg 399

<210> 31232  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-A5

<400> 31232

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 gacctagacc tatcaaagga ggaccttgtg aagctgcttc ttgagaaaga cgaatcattg 120  
 aagtctaaag atgaagagtt taaagatatg aaggataagg tcctacgcag ctatgctgag 180  
 atggagaatg tccttgccag aacaaagcgt gagtcagaga acaccaagaa gtatgccata 240  
 cagagcttct ccaagagctt gttagatggt gcagacaatt tgtctcgggc atcatctgtt 300  
 gtcaaggcaa gtttctcaaa gatagattca tctaacgatt ctgatgaagc tgtaacacta 360

ctgaaaaccc tactagaggg tgttgagatg actgagaagc aacttggaga ggtctttaag 420  
aagtttggag ttgaaaagtt tgatcctttg 450

<210> 31233  
<211> 367  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-B6

<400> 31233

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gtaatgtctt gtagtgggtcc gtttaggcgg tgtagtcatg ggaacgcgac ctcagatacc 120  
tggtttcttt tgattgtgat gttatcttgc attattgcac ctgtaggatt tgttgaagct 180  
catattttcc aggggttttg atcttttgtg ctagtcttgt gtcttttgtgt atgcagaggg 240  
tgagctagga ttatggtatg taaggagacc aactaattca tcaatactat atgatgttat 300  
caaaaaaaaa ataaataaat ttaataaaat tttatataaa aattttaata aattaattat 360  
ataataa 367

<210> 31234  
<211> 144  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-035-Q1-K1-C1

<400> 31234

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ggccgatatg tgtaatagga ggctccatcg aacatcgatg gcttgcttct ttatcagaac 120  
atgtttgaat aaacgctatt tggt 144

<210> 31235  
<211> 126  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-C10

<400> 31235

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaata agggcggcac gatattaatg 60  
 aggcgggctt acatacacgt ccatgcgaca tgcgtggctc ttctatagtg ccacctattt 120  
 ccaact 126

<210> 31236  
 <211> 356  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E11

<400> 31236

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 cgtgtgggcg aacaagccgt cgtggaggag agagatgcaa gaagagagaa aatagagcag 120  
 ggcttcagct acgcgattgc tggccaagaa caggtaaccac aggatgaggc gcatggagga 180  
 tgctgtgcga gttcgtgaga ggtctaggcc gtcgtctccc agtcaacttt gggttgctgg 240  
 accgttgtct ccttataatg taatcatgta ttacgtatag aactcctgct atgtagtaaa 300  
 gatgtgacat ttgatcctgt gccatgattc atcatatgtg tgaaaaaac aataac 356

<210> 31237  
 <211> 191  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-E7

<400> 31237

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 gctatactga ccattgcagg aaaaaactgc ctgcgttatc aattataaaa tttcacagat 120  
 cagacatgaa ggtaaagaca tgaccgaagt gtttgaaatc acagtcatca agaaaagaaa 180  
 aaaatgatac t 191

<210> 31238  
 <211> 392  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-035-Q1-K1-F12

<400> 31238

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ggcaaatttg gaggttttgg ttcaaaggcc taaggacatt gttcgtaaac ttcagtcagg 120

cgatcttgac cttggtgttg tgggttttga catagttagt gaattcggaa tctgcaatga 180

agatttagtg gttgttcatg atgctcttga gtttggacat tgtcgtttgt cccttgcggt 240

acctaaggaa ggcattcttg agaacataca tactatggaa gatttgctaa agatgtctga 300

atggacagaa gaaagggcac tacgtgttgt tactggattt ggatatctaa gcgataagtt 360

cttaagagag aaagggtttt aagcatgttc gt 392

<210> 31239

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-036-Q1-K1-A11

<400> 31239

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aagagcacct acaagatatt gtaacacatt ggaacgctcc ggcatttga atagcaactc 120

tacaatcggg agcgcaacgc ttgcaacatt tcgtgttttg ccgaaaagat gcaaaagaaa 180

aaagaacagg gaaagtccgt tggaccgcat gcatattccg atacattcca tccgaataat 240

atacagagca ctaacggtaa ggatcaagct tttgctggcc atgtcgcttg agatgacata 300

atgatgccca caatgactcc gaacagtccc agagcgctgc cgaagatctc aatcaccaaa 360

atctttacaa agagtgatga gttctgagca tcagacagtg cacagctgct tncgattatc 420

cccacacata cccc 434

<210> 31240

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B5

<400> 31240

aaaaaaaaa aaaaaaaaaa aaaattagaa aaaaaagaaa aaaaaaaaaa aaaaaggga 60  
agggt 65

<210> 31241  
<211> 332  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-B8

<400> 31241

aagcaatgtg ttagctcttc gccagaggag aggccgacaa tgcacagggt ggtacagatg 60  
gtggagtcgg atgtaattac accgtgccct agcgacttct atgattcaga gtagtctcct 120  
ggacaagcca cgctgctgct agtttcccggt gggggcgcat tcctttattc tttgcgtata 180  
ttgtgtaa at gcattgccgc ggtgtttggt ctccaatcgg ctggctcaac gggtgactct 240  
tttttgcgtc tgtataccta tgtatgtatc tgcatgcta caagttggct atatgctgat 300  
ttaataataa gagagaacta gaacttacta gt 332

<210> 31242  
<211> 102  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C1

<400> 31242

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaata aaacaacaac aaaaaaaaaa 60  
aaggaaaagg aaaaaaaaaa aaaaaaaac aaaaaataaa aa 102

<210> 31243  
<211> 306  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-036-Q1-K1-C7

<400> 31243

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gaattcgaga agtacctgct tgctcagagg caccgagctg gagatgatgg cggcaacggg 120

ctgttgcagg catgattgct ttccgctggt ctactggca ctagcagcta ctagtttctg 180  
atctgaagtg cttccttttg aacataacat gtgtctctgg gttaaaatcc aactgcaatt 240  
gattgttctg agaacttgct ctgccaaaaa aaaatgtaat gtattatatt acgaaaaatt 300  
tataaa 306

<210> 31244  
<211> 160  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-036-Q1-K1-D4  
<400> 31244

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cagcatggct tgttgggtgta ttctgttttt tcttctattc taaataatct gattgttgta 120  
tccaatactg tacttttttag ctttaagaaag aaataacttta 160

<210> 31245  
<211> 185  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-036-Q1-K1-F11  
<400> 31245

tgattagtaa cactaatcta gagaactgaa tttaaactatt ttaaaactag taacacgcat 60  
agggatctgg tgacattcat tgtgcacctg taattatttc attacctata actatattca 120  
acctcatatg gtctaatttt acgactttct tcacatcttc ttttcaatca tatcattttt 180  
aaatt 185

<210> 31246  
<211> 459  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-036-Q1-K1-F8  
<400> 31246

taacaagttt ggatacagag ggccgctacc ttctgttgaa tgcaatcgct aaccaactgc 60



gctatccaaa tagccataca cactactact ccttcatcac tctgtatcta ttttccgagg 120  
ctaccagga aattaccag gatcaaatca caagggttct tcgttagcgt ctcatagtga 180  
accgtcctca tccttggggg ttacttatta ctttcattga attgataaag aatccgtgtt 240  
acaacttttg gagccggtct gttacacact gtgcacctga gatcgagaaa ctgttcgagt 300  
cgggtggcaag gtcatgtggc gcaaaagtgt tggacgaagg aatcagcgtg catgatggca 360  
gccactaaag ccatctgctt tgttcaagtgt ttggttttga gctatttctt ctcttgcaact 420  
gaaaatttct gggcttgtac agatcgtctg tatagtaaa 459

<210> 31247  
<211> 395  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3067-036-Q1-K1-G6

<400> 31247

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caggatctga tttagtgagg tctctcgggtg agttctcgcg agcagcaagt ttgcaacct 120  
gtaattgcct gtacatcaac acaacacaat tttgtcccta accgcaactg gtggagagta 180  
gcaaggagcg atttggcgtg aatgaaccaa aatgatccca gtgtagatga catgctataa 240  
ctgtgctatc tttgcttgggt tgacgcttgg gcgaagtctt cgccacattt gtttaactgg 300  
ccatcacctg tttcttgcca cccatccggc actcgcacag atctttaata aaagcttgtt 360  
tagataaaaa aaaaanaaat atattatttt aataa 395

<210> 31248  
<211> 183  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-A2

<400> 31248

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaaaagagaa ataaaaaaaa aaaaaagggc catcccttct ttaggaatcc aaacttactt 120

acccttttctt ccaacaatat aactcttttta tattgtcccc taaattcatt tcactggcct 180  
gtt 183

<210> 31249  
<211> 349  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-B8

<400> 31249

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cgggtatgac attgcataac ttcattagag atagtgtctt acacgataga gattttgatg 120  
aagtaggagc taatagccta agtcatgatg tacctgcagg tgagagtagt actagtacat 180  
ctgatgagtt agacatgagt gattttcaag atgcaattgc taatgcatta gtgtcgtagt 240  
taacttagtg attgtaacag aacttatgat gtaatcaact ccactaatta ttgtgtaaaa 300  
aaaaaatata gtataatgaa gatagtataa gcaatatatg aactaaaat 349

<210> 31250  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-D2

<400> 31250

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aatacttaac ttgtatagtt aaacacacca ccgtatacta ctagcctact aacttggacc 120  
gtttaccgta aaccgtttta ctagctaaat ccccgatgga tccatcggcg gtgaatttcc 180  
cctaccccct gattagtcgt cgtcgcttgc cggatcattc ccgcaggaac aactttaccc 240  
gggcaacggt ttgcaaccc gttaaaatgc tcgcccggac caacgccagg tacatttggg 300  
ccattgcttg gttgaatgcc tttaacaata ccccttcggg gtaccccggt tttactccgt 360  
aagttt 366

<210> 31251  
<211> 365  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E12

<400> 31251

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caggatggga gttgaagatt ttgaacttct gactattatt gggagagggtg catttgagaga 120

ggtgcgtctt tgtagagaga agacatctaa gaatgtttac gcaatgaaaa aactcaagaa 180

atctgaaatg cttcgtaggg gccaggtaga acatgtcaaa gctgaaagga accttcttgc 240

tgaagttgat agtgcttaca tagttaagct ctattattct ttccaagacg aagagttctt 300

atatctcatc atggaatacc ttcctggcgg ggacatgatg actttactta tgcgcaagga 360

catac 365

<210> 31252

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-E4

<400> 31252

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cgatggttta taggtagctt atgtcatagg gtttaggata actggtagca tgtgataacc 120

tttgcatctt tctagtccac gcttctctga tttgccgttg agccgaaacg atgtattcta 180

tgctcgacgt gctataatag attacagcaa ttatgattat ttactttacc tgttcaatat 240

tagtggaaaa ggacgaaaag ggtaaactca aaaaaaaaaa aaaatat 287

<210> 31253

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-037-Q1-K1-H11

<400> 31253

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tttgtgtgtt agtcctagta ccgagatgta actttgttct ctggaataag tggattaata 120

aagggcactt tcgtttgtgt gtcgtcctga gctgccttgt ccgtagattc ttacaaaactg 180  
 ttctgtgcga aagctaccat gatagatatg cgtcgtcgcg tcgaattgat tgattctata 240  
 gcctgataat tgattgagta tcgccccatgt cgcacaggag aacgataaat ttgttccaaa 300  
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<210> 31254  
 <211> 178  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B12

<400> 31254

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 tggttgatcg ggatacttta cggatgaattc atgagattaa atctgcaaag cactttaact 120  
 ctgctgttct atcgactttt taattccaac ctacatcaac ttgctcagga aactcaac 178

<210> 31255  
 <211> 85  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-B5

<400> 31255

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 gagaatttaa aaaaaaaaaa aaaca 85

<210> 31256  
 <211> 394  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-C1

<400> 31256

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 atgggtcaat aaggcatcaa aacaactgga ccgtgaaaaa agacctgtgc ctagcgggcc 120

agaccccata catcacagca tcccatcaca tgctcctcag catccaccat catatggcaa 180  
 agctccttat gaagatgaca agagcatagc atctcctggg ctgtccaacc cgataggtcc 240  
 tccaccattt ttagatagat actagtcat gcaaaagtag tgagtattta tgcacctatg 300  
 ccaatgaata acctctaatt acctacatgt attgggctgg tgtttggttaa catgaagcaa 360  
 taactttctc ttatcgaaaa aaaaaattta agat 394

<210> 31257  
 <211> 397  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F1

<400> 31257

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 acggacgacc agatcgccga gttcaaggaa gcattcagcc tcttcgacaa ggactgcgac 120  
 tgctgcatca ccaccaagga acttggaact gtgatgcgct cgttggggca gaaccctact 180  
 gaggctgagc ttcaggacat gatcaacgag gttgatgctg atggcaatgg aaccatcgac 240  
 ttccctgagt ttctcaacct gatggcacgc aagatgaagg acacagactc tgaggaggag 300  
 ctcaaggagg ccttcgcgct gttcgacaag gaccagaacg gcttcacttc tgctgctgaa 360  
 cttcgacatg tcatgaccaa cctaggtgag aaactga 397

<210> 31258  
 <211> 102  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F2

<400> 31258

ttttcatcaa accaacacac tgctaattaa tgtttatgga tggatctatc caacaaaaaa 60  
 atcgtctgtt cttacgatga gcagggaatc cccttaccga tc 102

<210> 31259  
 <211> 178  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-F7

<400> 31259

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gggggggcaca tccaacatgt tgggtgggta atcattcttg tactacgaca tggttcctat 120  
tattttcaag tacttaactt cactcttatt tcctttattt ttacatctgt cgcactgc 178

<210> 31260

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H10

<400> 31260

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atagcatagc aaatgactcc cctaagaatg agcacttaca acttctcgtg atgctataag 120  
gacgcactta cagatttttg cgtaaacaac gagcatccta gttgtgtttt ttaccagcag 180  
gcgctgctac tcctgtcata cttcaaccat ttgtattcac atggtcttaa tggtttgatg 240  
acagctatcc tgttttttgt tcttatctaa aacacagtca cgcttc 286

<210> 31261

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-038-Q1-K1-H5

<400> 31261

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acggttttaa atccagtcct gatcgccggc cgagagcaga ggaagcagca tcacaagtcg 180  
ggcaggattc ccagggcctt gccgtactcg accatgtcgt cgtatatgtc atccagcgtc 240  
ctgtacctga actcgaaacc ttccttcacc agcttcgccg acgacaggca cactctcggc 300  
ttttaagccg ctgcgccgaa agcaggttcg ttttgacgcc gtactgcggg tacttgttcg 360  
tcaggaaacg c 371

<210> 31262  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-B3  
  
 <400> 31262

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 tgaacgagct agctcgggcg gcggcaggca gccatcatgt cggaggagaa gcaccaccac 120  
 ttcttcaacc accacaagaa ggacgaggag cagcccgcg gcgagtacgg gtactccgag 180  
 accgaggtgg tcaccgtcac cggcgagggc gactacgaga ggtacaagaa ggaggagaag 240  
 gagcacaagc acaagcagca cctcggcgaa gccggcgcca tcggcgtcgg cgccttcgca 300  
 ctctacgaga aacacgaggc gaataatgac cccgagcacg cgcacaagca ccagaatcac 360  
 ggaggaggtc gctgccgcg cgcgcgtcgg ctccggcggc tacttattcc acgagcacca 420  
 cgagaagaag aaggaccac 439

<210> 31263  
 <211> 322  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-039-Q1-K1-C4  
  
 <400> 31263

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 ggcgaggcgg accgcgtga cctccctccc cgcgcgcctg cgcgccctg cgcccccg 120  
 ggcgacgggc ggccggcgcc tcctcagcga cgggaagggg cgcgtgctca gcgaggagga 180  
 gcgcgccaag gagagcgtct acatccagaa gatggagagg gagcggcatg agaagctcaa 240  
 gaagaggctc gagcaggaga aggccgactc cgacaaggcc aagcccgcg acgccgacaa 300  
 gaaggccgaa ggatctacct ag 322

<210> 31264  
 <211> 69  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D12

<400> 31264

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gaaaaattt 69

<210> 31265

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-D4

<400> 31265

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gactgcttgg tatgtgtagt actgtactat cttttctcca tatgcatggt ttgccagcgc 120  
gtaatgaatg taatgtcagt actgctaaaa aaaaaaaaaa taaaaaaaaa aaaataaaaa 180  
aaaaaaaaat aaaaaaaaaat aa 202

<210> 31266

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F1

<400> 31266

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acacagacac agtgtgcagt ttttgacatt gctggtcaca tttgcagttt gaattgcaaa 120  
accatattgc cagcattatt gccacaactc atattccatg atcacatcga atgaccgaaa 180  
ttgatgacaa gaactagccc atctcaacaa ctaaaccctt ctttcgctgg tggcacggaa 240  
caacaacgac acctttggag caaccactgc atatgcataa agcaacccaa tctctagtag 300

<210> 31267

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-F2



<400> 31267

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gtgtgggtgc actggtcac acgatgatct ggagctttga aggcatagcc acctgtgggc 120

agcaactgct gccgtgttgc tagaataaag ttgggtggcg tccatcgatc gatctttggt 180

gatgggtgtc cctccctgtg tgtttgtggt tagttccagt cgtttgtgag gaagtcagtt 240

atgtttgagt gagaggggta ctccgctctt cggttaactc tgtacttgct atgaggagag 300

ttttcatacc cggagtgtac gatccgagta catactcgga tccttccttt ttcacgaaa 360

tgggttttat cttatca 377

<210> 31268

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-G7

<400> 31268

aaaaagcgaa catgttatag tgattgaaca gtcggtgacg caacgtcagt ttcaggcaca 60

ccagcagaaa actcggccca aatatcgatc aaagaccaac aatacgcatg tttggatacg 120

atctggtttg gacttacacg ttacactagc caacctgtca atactcagag caatgcatgc 180

atttgatta cccacacggg acaccaaacc acttgttacc tgaagatggt agatatggat 240

tccgtacagc aacgtaattg agatgtctag gtcaagagca ggtaccacag gatgaggcgc 300

gtggaggatg ctgtgatgag ttcgtgagtg gtctaggccg tcgtctcca gtcaactttg 360

ggttgctgga ccgttgctc cttataatgt aattacttat ttatt 405

<210> 31269

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-039-Q1-K1-H9

<400> 31269

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggaa 55

<210> 31270

<211> 395  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-A9  
  
 <400> 31270  
  
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 ggagtgggtga tatgacaaac gaccggggga gaatgaggag cagatcacgt tctccaacaa 120  
 ggcattggcta tggaagatct ggaagtccaa atcattagct gaatatctag atagttctat 180  
 tcacagttgg gactcatgag ctctgttggga accctacagt cttgcttttt acatgagata 240  
 aaaaaaattc tcagttaaac tcgtaagggc ggttctggac tttatgagtg gatgatgatg 300  
 tttacagaat tacagtctat agcaggtaaa ccttgaacat taatgttttc tgagacacat 360  
 atcttttatt tcccttgaca actttgctat aaacc 395

<210> 31271  
 <211> 336  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-C4  
  
 <400> 31271  
  
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 atcgtcagaa cattcttcct taacagaagt cgtagggctt cttagttagg tacatacagt 180  
 agcatgcata aagctaggac cgatatgggt atatatagag gatttatcaa aagcattacg 240  
 tccaacatat attgaagatc catggccact agagcacaca gcgcacaaag aagcaactta 300  
 atcattgttc aagtgggtcca tgtaagcttg atacc 336

<210> 31272  
 <211> 91  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-040-Q1-K1-C6  
  
 <400> 31272

cccacgcgtc cgcccacgcg tccgcggact cgtgggaaaa aaaaaaaaaa aaaaaagaag 60  
gaaaaggacg accgatacta tacagcatcc a 91

<210> 31273  
<211> 374  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-D5

<400> 31273

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ctgacacaaa ttgccatagt ggcacggcat tgtaccacgc tgtggccgct gggttcgtgc 120  
acgctcagct cagttagttc cgatctagtt ttgtaaattt gcgcgctcaa attagtttgt 180  
tttcctggga caaattggag cggaagaaac acacggacat caagatgggt ccgcgaggag 240  
catctggagc agcatgtcgt tccagacgct gatggggccg gggaggcacc agtgcacgca 300  
gtcgttgtag agcgtcacgt tctcgtgcgg ccagtggccg taccggctcg ggtggccgtc 360  
cggccgaagc acca 374

<210> 31274  
<211> 340  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-E7

<400> 31274

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ctctcaggct ttcagttagt gcttatggcg ttctgttaga acctgtattt gtattcctgc 120  
tgggagcctg agttccattc cgtgcaaaga taaatcatgt gtgacgacac gtttgcaaca 180  
gcatttatgc ttaaactgca ttaatgatga tgcgttgagc tctgaatgc ctagtttttc 240  
tggcgacaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaag 300  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa 340

<210> 31275  
<211> 372  
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-G10

<400> 31275

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tgtttcactt ttcggctttc tgaactgctc ggtctcacga gcctgtgtag tatcataaat 180

tcataatatt gtaatgcgag catttactgt ggacgcaacg ctctcttcag tatgaataga 240

tactgaataa ttaagagcat gatatatatt gtttgcgcg cgcattgagt tctgaaatat 300

aagtgaagtc cctcgacatg atcaaaaaan aaaaaaaaaa aaaaatagaa gaaaaaaatt 360

taaaaaagaa ta 372

<210> 31276

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-040-Q1-K1-G7

<400> 31276

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gccaggaacc tctttccaca ctccgcgct cctgcctctg tctcgagact cgagaatggg 120

tgtgtaggcg ggcgaggag ggagggaggc gagaggggga gctagggttt ttcgccagcc 180

gccttctgtt atcctcaggc tctgaacccc ctctgtccg gtgcgcggcg gattagactc 240

cgatggggaa gtctccggcg aagtggatca agtccgtgct ctctgtgaag aagtcgtcgt 300

ccaggtccgg ctacaccaag gccaaagatt tatcgaaagg tgcgagtaac aaaggagctg 360

ctgctgcggc gaaagagccc gtgttctctg agagctcccc agtgatctcg gagcctgtac 420

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<210> 31277

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-040-Q1-K1-G8

<400> 31277

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gcccactga gagggcctgg ccagcggttt acttctctga tgatctctca ccaattacag 120  
tcaccatcaa agaggaaaga aggaacttcc ttcattttat aactcgtctt tgtgcagttc 180  
ttggtggcac atttgccatg acaggaatgc ttgaccgatg gatgtaccgg cttgtcgagt 240  
cagtcaccaa ctcgaagacc agaagtgtac tgcggtaact gcacaattca tgttaggcgg 300  
aaaacagctg gtaccgtggc taatgaagcc aatagacgga cttttgctcc caagctaacg 360  
gatgaagcaa tgctgatttg catgttntat tttcttcgta catgactaac tttatcatca 420  
gttatgttaa attgacac 438

<210> 31278

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-C4

<400> 31278

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gcctgcaatt ggtagaactt ggagctgcgg gatgtaacag cataacagat gctggtatat 180  
ctgctctggc tgatggctgt catcacataa aatcactaga cataagcaaa tgcattgaatt 240  
tcctaactga agagggaggg agagagagag agagaatgtt cctgtttatg tagagatgga 300  
gtccaaaatt tgtgtgcctg atgagttctt ccccatatga tattaactga aatagtatat 360  
caattgaatg tattacattt taagttttta ttcaatcgat ctttaagagat taaaaataa 419

<210> 31279

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D2

<400> 31279

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 cgagtgggtc aatgccaaca aatacaatca caaaggaaag gaaaaagcac gagactgttg 180  
 tcctggctga gcttgatcaa agaacaagac ggctgagttc actcaagatg gatggatagt 240  
 ttgtaaaata caagttcttg aaagctgtag tcttggccta ttctgcacct ggttccacag 300  
 cgtatgcttc actgagcgaa aaatcattgg tctaccgaat actgcgaga 349

<210> 31280  
 <211> 410  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-D8

<400> 31280

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 cgctcaccat gtacccgtcc gaggaccgct ccgagtacga cccgcgcacc ggctgcctca 180  
 agaagtacaa cagcgctcgc ctctaccaca acgccatgct ccgcgctcgc ctgcaccgcc 240  
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 agttcgcgcg cacaccgcac ctctacggct acaagcgcg cgctctgcgg gcttgctgcg 360  
 gcggcgccgc gccgtacaac tacaacgtga gcgcgctcgt cgggctcccc 410

<210> 31281  
 <211> 134  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-042-Q1-K1-E12

<400> 31281

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 acctaaattc aatt 134

<210> 31282



<211> 303  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-042-Q1-K1-G6  
  
 <400> 31282  
  
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 aaagtttgaa aatatactgt atattggaca ctgccatcac catcctcacc gtcgttacia 180  
 ccagcagcat ctgctaattc ttcttgatt tcagttcttc aatccgttcc ttctgtggct 240  
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 ggg 303

<210> 31283  
 <211> 111  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-042-Q1-K1-G7  
  
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 caaaacacga aacaactgac gaatagcgag ccgctaccag gtagcagccc a 111

<210> 31284  
 <211> 332  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-043-Q1-K1-B6  
  
 <400> 31284  
  
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 aattttatta catctgctac acctcacttg ggctcaagg tgaataagca acttcccttc 120  
 ctttttggtg tcccactttt ggagaaaact gctgcaggaa cagcacattt tatagttgga 180  
 agaactggta aacatctatt ccttacagac aacgatgatg gtaagactgc tcttctccta 240  
 cgaatgggtg aagattgtta ctgactgtaa ttcattgtctg ctatgcgctg gttcaagcgt 300

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332

<210> 31285

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-B9

<400> 31285

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aggctttgca acagctgcgg gataaggcac tgagacgagc ttccatcacc gaggagcttg 180  
tggtgcagaa gattgaagag aggactgcag caaggaaggc aaagcagtat gaaaaatccg 240  
acgagatccg gaaagaactg gctgccatag gaattgccct catggatggc cccgacggaa 300  
ccacttggag accatctttg ccaattttag aggaagcggg gggttgcgaaa acatgatctg 360  
tgcaagggat tccaattcga cccatggaca ccagttctag tcgtgtatca tggatttgct 420  
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<210> 31286

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-C10

<400> 31286

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ttatttaata cccaattgc caaatgtctt acaaaagcaa tagcacctac aagatatcgt 180  
aacacattgg aacgctccgg catttggaat agcaacttta caatcggtag cgcaacgctt 240  
gcaacatttc gtgttttgcc caaaagatgc ataaaaaaaa aaaaagggcg g 291

<210> 31287

<211> 444

<212> DNA

<213> Zea mays



<223> Clone ID: LIB3067-043-Q1-K1-D9

<400> 31287

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tcggcatgct ctgccgtagc gccgactcga cacacgagac agcgtgtgag cagaagaccg 180  
aggtgagatt tcgtacacac tcatcccaaa cggctcgaat cagaagggga atcgtggcg 240  
cgtaggctat gaatactgtg agccaaagag atttgatatt ttattgctag ctgcagatca 300  
gagaacctga agtatattga tttcataggt ggttcttgct ggatcatggt aagctccatc 360  
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<210> 31288

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H11

<400> 31288

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ggttcagcag ggcaggccaa ttccataagg tggtaggcat ggtgaagctc gccgagaggc 180  
tcgacgtgcc cgtgaacacg cttttccaca acgctgttct tggcgcgctgc gctagagcgg 240  
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atgcttcgac gtactctatc ttggtggagg cttatcgcaa ggaggggaatg accgacaaga 360  
tctatgctct gcattaggag aaccgggctc tggtttcagc ttgatttgct atggtttgaa 420  
tgaccagtg acttgagtca cg 442

<210> 31289

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-043-Q1-K1-H6

<400> 31289

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aaaagtatgg aggaatattg ccagaaaaga ctccacttat atctaaggat catgaacgtg 180

cttactttga ttctgctgat tgggctctag gaaagcaagg tg 222

<210> 31290

<211> 193

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-044-Q1-K1-B2

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aggtttgata tgggtgtgta tactgtgaac gtgggctagc ctatgatcta tgtctgcagt 120

ctgcaccata tgttgaactg ctggactaca acagctcgga tcaaaagccg aatgtacaaa 180

attaaccaag aac 193

<210> 31291

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-B4

<400> 31291

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gtcgtggtgg tgttcgactt cgacaagact atcatcgacg tcgacagcga caactgggtc 120

gtggacagcc tcggcttcac cgagccgttc gagcgctgc tgcccaccat gctctggaac 180

acgctcatgg acaccatgat gggggagctg cacgcgcacg gcaggaccct ggacgacgtc 240

cccgaggcgc tccgtgcagc gcccgtcgtc gcgggcgttc tcggcagcat caatgc 296

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<212> DNA

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<400> 31292

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tgtaaatgaa attggttatg tgaatgcgca tgccacgtcg actcctcttg gtgatgctgt 180  
ggaggcgaac gcgatcaa atctgtatttgg cgaccacgca gcatccgggtg atcttgcaat 240  
atcctcaaca aagggagcaa ttgggtcatct gctaggggca gctggatcag tggaagcaat 300  
cttcactgtg ctagcaattc accacggact cgctccgtct actcttaacc tggagcggcc 360  
ggacccgctg ttcgaagggg cattcacgcc actagctgcg cccaagaaga tgctc 414

<210> 31293

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-E7

<400> 31293

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caatgctggg gtggaggggag cagtagttgt gggcaagctt ttggagctag gaaacactga 180  
ccttggttat gatgctgcta aagacgaata cgttgacatg gtgaaggctg gtatcattga 240  
tccgctaaag gtcatacaga ctgcattgggt ggatgctgct agtgtgtcgt ccctgatgac 300  
caccacggaa tccataattg tagagatccc caaggaagaa gcaccggctc cagcaatggg 360  
tggcatgggt ggaatggatt actaagtgtt aagcaca 397

<210> 31294

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-F7

<400> 31294

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cgagagggcc cgctccccc ggtctacggc ggctacggcc agccaccgcc acccgacccg 120  
 tacggccgcg cgcccgtcga ccccgatccg tacggctcgac ctccgcccc a gtcgcgtac 180  
 ggtggggccg gggacgcta cggccacagc ggccaaggct acgcgcccc gccggcctac 240  
 ggcgccgggg gcgggtacgg caacgtcgtc cacgtcgcgc ccgaagtgg cgacgagagg 300  
 ccttacta 308

<210> 31295  
 <211> 289  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-044-Q1-K1-H3

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 tccttctca aagattattc tgaatcacac aagaaactct ctgaacttgg cttcacgct 180  
 tgcaacacaa caccattcaa atcagatctt tcaaccggcg gcgtgcttgc acagaatgcc 240  
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<210> 31296  
 <211> 440  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gagcagcaag agtgagtaa ttcagattct gtgatttgac tcaataattg acatgattgc 180  
 attattgaga ttataacttg gagctgatta tattcggtat ctatgataga aacctccaaa 240  
 tatgataagt ttccctgtga aaccatgcta ttttagccac gctggagttg gttaaagcac 300  
 cagttaacaa cttcctttta tgcataaac aggagatgaa cctggaggca cctncagcat 360

tgggaggtgg atgtgcagcc cccatgctag gagattcgat ggaaaaggct ccaagctcac 420  
 cttggatgcc tntctccatg 440

<210> 31297  
 <211> 91  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A2

<400> 31297

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<210> 31298  
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 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-A4

<400> 31298

aaaaaaaaa aaaaaataaa aaaaaaattt aaatttacca aaaaaaaaaa aaaaaaaaaa 60  
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<210> 31299  
 <211> 70  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B12

<400> 31299

aataaaaaaa tcactttaaa aattttaata ataaaagcaa aacaaaaaaaa aaacaggaaa 60  
 ggaaaactga 70

<210> 31300  
 <211> 267  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-B2

<400> 31300

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aaggtttggg gacgatgaca atgtaaataa tagaggtggc tttggacgcg gaaatcaagg 180

cagagggaga gggaggagtt ttgggggtgg tgggtggatca tcatggaatg aaggcaacag 240

aaacggtgaa ttacgtgggg taaggtc 267

<210> 31301

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-F7

<400> 31301

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aacttcgacc tcgactcggc ctacagtgcc tttttggctg cgctgccgcg cgctgggtctg 120

taaccgggcg tggacctggg tcgttcttta cttctattac agtactatag atatctgtaa 180

tttcgggtact gctattttat tgtaataaag aaagttctgt tttctttata tactgtaaat 240

atgtttatcg catgatatac attcacatga caacgcttgc aaatggcctg tagcctgttt 300

acttgggtaa aaaaaaatat ggggtataagg tgaaatgata agaagatagg tagtggtagg 360

tga 363

<210> 31302

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-045-Q1-K1-H10

<400> 31302

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gggcaaccaa agaaagggac gcgcaagaaa acacacgcac gcaggcaaca aaagcagcgc 120

gaacagaggg agaccaaaaa agcaacaagc cgggccaacg attgacagcg gcggc 175

<210> 31303

<211> 438  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-045-Q1-K1-H7  
  
 <400> 31303  
  
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 tcgtcttctt cgttgccatt gccacgtgcg tctgccgctc accattcccc atcctgacga 180  
 tggctgcgga cgcggacaac ggcaccagcc acctgagctt cttcatgcac gacatcacgt 240  
 aaggcgccag cccgaccgaa gtgaagggtga tcaaggggccc cggcgcggggg tccacgctga 300  
 ccgcgcgggc gctgggcatg acgttcggcg acaccatggt gatcgacgac ccgctgacgg 360  
 aggaggcgtc gcccgcttac gccgagctgg gccgcatgca tggcttctac atgctggcgt 420  
 accagaccgg ggcggtgc 438

<210> 31304  
 <211> 64  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-046-Q1-K1-A7  
  
 <400> 31304  
  
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 ggaa 64

<210> 31305  
 <211> 215  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-046-Q1-K1-C10  
  
 <400> 31305  
  
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 gggatatgtg gttgctgtaa cactgctaaa ctaagttact cttgtgtttg ctaaggatta 120  
 agttctgtat ttgttgctat aaaagggtgca tactttgaat gactggttca tcaaaaaaaaa 180

aaataaaaaa tggaatgaaa ataataaatt aaaaa 215

<210> 31306

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-D2

<400> 31306

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agctggacgt ccttagctct ccacttactg tactattcta catctgataa ttccccgattg 120

ctaagctcca tcgctgcagc tactccgacc actttgaggg cactctctct tacattacgt 180

gtgattcctc gatgaccagt aagaccaggt tatatctcca ccatgg 226

<210> 31307

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-046-Q1-K1-G5

<400> 31307

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agggaaaaga aaaaggagta agaataaaga aaatac 96

<210> 31308

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A12

<400> 31308

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agacatcgaa atgacgcttt gtgattctta agctcatcca tttcttgtca gctgcacgga 120

tgacaaacta agttctctat tgtgttgacg ggtgcagttg gatgactggg tcctgtgccg 180

catctacaac aagaaggcg gcgggctgga gaaggcgccg gcggccggcg gcgaccacaa 240

gcctgtgttc gccacggcg cggtgagctc cccgccggag cagaagccgt tcgtggcggc 300



ggcgggcggg ctgcccccg cgttccccga acttgccggc tactacgacc ggccgtcgga 360  
 ctcgatgccg cggctgcacg cggactactc cagctgctcg gagcaggtgc tgtccccgga 420  
 gcagctggcg tgcg 434

<210> 31309

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-A8

<400> 31309

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 gacccttctg ccggcgatgc gtcctggcc ttaactggcc gggtcgtgcc tccggcgccg 120  
 ttactttgaa gaaattagag tgctcaaagc aagccatcgc tctggatctt tagcatggga 180  
 tatcatcata ggattccggt ctctatcgtg ttggccttcg ggatctggtt cggaac 236

<210> 31310

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-047-Q1-K1-C12

<400> 31310

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 cgtactcctt cccaagacaa agggtttcaa ttgctgtttg caagtgctga ggagtaccat 180  
 agatgctgtg tacgacatca cgatcgccca caaacaccgg ccgccgacat ttctggacaa 240  
 cgtctacggc gtgggtcctt cggaagtcca catccacatc agcagcatcc aggtctccga 300  
 cataccggcg tccgaagacg gggtggtgg ctggctggtg gaacggttca ggctcaagga 360  
 cgagctgctg tcgggcttct tcgcgctggg ccactttccc gacgaaagga aaaggacccg 420  
 agggg 425

<210> 31311

<211> 66

<212> DNA

<213> Zea mays  
 <223> Clone ID: LIB3067-047-Q1-K1-D6  
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 cactac 66

<210> 31312  
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 <212> DNA  
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 <223> Clone ID: LIB3067-047-Q1-K1-G3  
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 ttgccagttc gatgcctgta cccgtggctt aattctctat catcggagct acttatgtgg 180  
 ttctattact agatgctgac ttactttcaa cttgtgctgt tgtaccttca tatttggact 240  
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<210> 31313  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-047-Q1-K1-G6  
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<210> 31314  
 <211> 337  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-047-Q1-K1-H11  
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tgccaggata ggtgagcgat tgagcccttg ggtatcagtc ggggtgcttgg ctatgggaat 120  
atccactatt ttcttctaag gccgaagtgt taatctccac atatttagtc taggacgcag 180  
caccttgttt cacttgtaga gaaaaaaaaa ctatcgtaag cattttgctt cagtttttaa 240  
tggaatgggc actgtaagat ctgtatctgc actgagattt ctgagattaa caaaaatgtt 300  
ttctcataag atttctgaga aaaaaaacia ctacata 337

<210> 31315  
<211> 442  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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tctggtcata caatatgtga gtctgagatg attcatattt tatgccactt ttttacattt 300  
tcaaagtgtc ctgttggtgt gattgggtcac ctatatcctg ctgattttgc acacatcang 360  
agttccaagt aggtatttac accattcttc ctactagtaa gttttctata atctgacaaa 420  
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<210> 31316  
<211> 433  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-A12

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gccgacgcca cccacataca ctcccgaacc tacgcccac aaaccacac caaaaccac 180  
tcccactaat acgacgtaca ccccgaccca caaggctccg acacctaagc cgaccccacc 240

aacgtacact ccaaacccca aacgctagac gcccaaaccg accccagcta cttacacccc 300  
 ttgcegaag ccttcgacac ctaatccgac caactctacg tacactccaa accctaagcc 360  
 acctgatacc aagcccttca cgcccaatcc gaccacgtca acgtacaccc attcgccaaa 420  
 gcctacgaca ccc 433

<210> 31317  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
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 gcaaagcgcg catccagatc tggctattcg agcagaagga cctccggatt gagggtcgca 180  
 ttatcggatt cgatgagtac atgaacttgg tcctcgaaga cgctgaggaa atcaacgtca 240  
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 tgatgaacag tggcaagtga agattcttat ggcaggaacg atgtttgggtg ctgcgttcga 360  
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 tg 422

<210> 31318  
 <211> 66  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-E7

<400> 31318

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 agaaaaa 66

<210> 31319  
 <211> 447  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G11

<400> 31319

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gttgggtctgg atcagttcat cacgaagaac gctacactca ctaatgagaa ggaggttgat 120

gcatgcccaa tcagagcaat gaagttctct gtctcccctg ttgtgctgtg tgetgttcag 180

tgcaagggtg cttccgacct tccaagcta gtagaagggt tgaagcgtct gggaagtc 240

gacccatggt ttctgtgtac aatggaagaa tctggtgagc atatcattgc tggagctggt 300

gagcttcac ttgagatttg cctgaaggat ctgcaagagg acttcatggg aggtgctgaa 360

attattgttt ctctcctgt tgtgtccttc cgtgaaaccg ttcttgagaa gtctgcccgc 420

actgtcatga gcaagtcacc taacaag 447

<210> 31320

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-G4

<400> 31320

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atagaacaat ggaatgacat gctgaggact gaagtagtaa agttgtgtca agacaacaat 180

tttcaaacag gtttttttga aggactgat aatagcactg ttgttgatgc ttacgagttg 240

aaggtaaatac taaatgtaca ctctgtacta actacgtgta cacattaatt gaacctatcg 300

agcaattctg ttgttaggtt cgacttgagc acattctcga gaggatatct ttgatctctg 360

atgctgcaag tactgagcgt ccatcacaga tcacagatta cctgtatatt ggtgggtgctc 420

ttgctgctcg gtcaacacac aacttaa 448

<210> 31321

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-048-Q1-K1-H5

<400> 31321

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atgtacgtgt gtctacatgc atgttggttg atccgattgc gtctgctgct accatatatt 180  
aattggacca cgatgatatg atttgatact atatatatat actaaaaccg gacttattat 240  
tatgaaaata caat 254

<210> 31322

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A12

<400> 31322

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gatacttgat ttgtaatagt ctttgcgtgt gtttcgctct tcatgtggca tgttcagttt 180  
gatctatagt tgtatctttc actttcacac tgaaattgaa aagtaaagcg caaatttcct 240  
tgtaaaaaaa atgaacagaa aaaaaaagag aag 273

<210> 31323

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-A3

<400> 31323

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cggcgtctcc gtcggcgtgc ccatcagccc caccgtcgac tgcaccaaga tcaactgatc 120  
gatggaacca tagtggaggt agctcgctcg ttggatggca gcgtacgtgg ccatcagcag 180  
catgcagtcg tcgtcgtagc agagatgtcc tagctacgtg tgtgtcatgc atcagactgg 240  
cacataataa agaagtagat catgcacca ctagtgatca cttcgtctag tgtccctccg 300

ttcaatgtcg tcgtcgtcgt cgtgtacctt acgtgacatg cttgagcacg tacgctagca 360  
gagcagcacc ttaatgtcct tgggtttgct ttgctggctc tctgggttcg tcttgggggtg 420  
cttttaatct ggca 434

<210> 31324

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-049-Q1-K1-A5

<400> 31324

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gctattttccg tcggtgtgcc catcatcccc accagcgact gcaccaagat caactgatcg 120  
atggaaccat agtggaggta gctcgtcgtc tggatggcag cgtacgtggc catcagcagc 180  
atgcagtcgt cgtcgtagca gagatgtcct agctacgtgt gtgtcatgca tcagactggc 240  
acataataaa gaagtagatc atgcaccac tagtgatcac ttcgtctagt gtccctccgt 300  
tcaatgtcgt cgtcgtcgtc gtgtacctta cgtgacatgc tgtagcacgt acgctagcag 360  
agcagcacct caatgtcctt ggggtttgctt tgctggctct ctgttttcgt cttgtgttgc 420  
ttttaatctg gcacagggtt ctaaattata ataatgaa 458

<210> 31325

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-049-Q1-K1-B12

<400> 31325

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ggagaggaaa tgcgaagatg gcgatgaccg tcgaagtgtc tgctgcactc gcgttcatgt 120  
tctccacgag tattctactg cagatactgg catgcgcttt gtacaacaac tgggtggccca 180  
tgtagcagc tctcatgtac gtccttgtac caatgccatg cctgtttttt ggtggtggat 240  
ccacacactt cttgaccagc agagaagggt gaggggtggat taatgctgca aaattcttga 300  
ctgggtgcgtc ggccatggga agccttgcta ttccagcaat tctgaggcat gctggcttaa 360

tcgagaccgg ggccatgttc atcgagttca cgttcttctt catcctttga tgcacagtgc 420  
 tgtgcttcca taaggcgact ctggatga 448

<210> 31326  
 <211> 275  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-A1

<400> 31326

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 aagggcgcg c tttccaagta ctcatgatca ttatggtggt cgttgtaggg atctttcaac 120  
 ccgaattctg tcacgaatct ccgtcgggac tgtttttcac aaaaccttcg tagaccattt 180  
 ggacactttg ttcgagttcc agatttatat cttccaagag attattacac tggacgcaac 240  
 acatgcctac aagattattg ttgaagacca cgatt 275

<210> 31327  
 <211> 101  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-B10

<400> 31327

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 gggttaattat tgaaaggtca gagaacttct acagtgcctt t 101

<210> 31328  
 <211> 276  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D7

<400> 31328

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 tttacttcgg ccgcctgctt gtaactaatc aacatgtgga tcaccatgcc gcatgcatgt 180



cagtctgtcg catcggaac gttagctatg taatgctgta ctggctgtcg attcgtctct 240  
 ctgaatgagt gtttggcagc ataaaaacat gaacat 276

<210> 31329  
 <211> 273  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-D8

<400> 31329

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 ttactttgcc cgactgcttg taactaatca acatgtggat caccatgccg catgcatgtc 180  
 agtctgtcgc atcagaaacg ttcgctatgt aatgctgtac tggacgacca ttcgtctctc 240  
 tgaatgaatg ttcggcacca tactaaaata tac 273

<210> 31330  
 <211> 63  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-F9

<400> 31330

cccacgcgtc cggtaaaaaa aaaaaataa ttaaaaaaaa aaaaaaaaaa aaaaaaaggg 60  
 aag 63

<210> 31331  
 <211> 449  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-050-Q1-K1-G9

<400> 31331

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cagtacttta tgctgtggat ccagttctgc atactttgac ctttgagcat gtggatggct 180  
 tgtctgtcaa ggatatactt cttagggttg gttcagatgg ggtcaatgag gaacgcctga 240  
 atgatattgc cacacaaata ggaaatgcc a ttggcaaaca acatgatgga ggccttggtc 300  
 atggtgattt gaccacgtca aacatgataa ttaagaacag taacaatcaa ttggttctta 360  
 ttgattttgg gctgagtttc acttcgacaa ttcccagagga caaagcggtg gacctatatg 420  
 tgctagagag agctntgatt tccatgcat 449

<210> 31332

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-050-Q1-K1-H11

<400> 31332

cggacgcgtg ggggggctgt catgaattga tttccctgat ggtatcattc agagaacgta 60  
 gattctgggc attcctggat cgagttaaat aagagccgtt cctggcatcc tgcaagttca 120  
 gtgccgcttc cttttacttg attttgtaaa ccggagactg taaatgtgct tgaaccgtgc 180  
 ttttagacct atgcctgaaa tcttgcattc aataagcgtc tttgaagtg 229

<210> 31333

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-B2

<400> 31333

cgtgtatgct actagccagt tgtattgcac gaccggcctt aaagaagagg tttctttctg 60  
 gtcgctaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggccccccaa aaaaaagaac 120  
 acaaacatac atacacgtcc atgcaacacc ataactctac aataaagcca cctaaataaa 180  
 att 183

<210> 31334

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-C1

<400> 31334

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ggagctgttg taaatgacat caatccatac aacaaggata tgttccctga ttttttgaga 120  
tggctaccgg agagaaacct ttcaagcgat gatcggacaa tgcgcctaaa agaaggatac 180  
atcaaggaag gtatcactgt gagtgtgatg ggggttgtcc aaaagaatga caatgttctg 240  
atgattgttc cttcatcaaa gcccattctca actggttgta agtgggcca atgcaatttc 300  
ccaaccaacc ttaaagggtc tatttta 327

<210> 31335

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-051-Q1-K1-F6

<400> 31335

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ctcatatcct cgtcgagggc gagggcgggtg gcctacctcg acgagccctc cgtgctgccc 120  
tgcgccggtg acgacgcctt cggccctgac gccgtcggcg acctcgcaact cgctctcgaa 180  
gcttatgaat ctacatctca taagctgggt ttcatlcagc aaaggtctcc agttactaca 240  
ggaatgatgg tttcatttgc aaaaaatgtt gctgatttca taagcagcat cgggaagaac 300  
catattgtca ttatatcaag tttagattct ggaaagagga gagtgattga tgcattccagt 360  
gacatgcagg tgtattacct ttcaagttgc aatgaagatg gttctgatcc agaatatgag 420  
aaattggggt ggaaaaagct tg 442

<210> 31336

<211> 241

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-051-Q1-K1-H4

<400> 31336

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agctgcccac cttcatccgt caaccatggc gaccanac agcaagaaga agaagttcgt 120  
cagcgacggg gttttctacg ccgagctcaa tgagatgctt accccggaac ttgccgagga 180  
tggtactctt ggcgtggagg tgcgctcac gcccatgcgc acggagatca ttattcgcgc 240  
c 241

<210> 31337  
<211> 89  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3067-052-Q1-K1-A8  
<400> 31337

ttttaatta ccgtgccccg tggtaattaa ttatgtacgt acttatatat gtatatacat 60  
tacgccgaag aggaaggagc actttgtat 89

<210> 31338  
<211> 554  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3067-052-Q1-K1-C12  
<400> 31338

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cgagagaagt ggatccagat cgagaccgcc aagatcatcc gggagcgcct ccgctggtgc 120  
taccgcatcg agggcatcaa ccaccaccag aagtgccgcc acctcgtcga ccaataccta 180  
gaggctaccc gcggcgtggg ttggggcaag gatgcccgcc cgcctgaact ccacgagccc 240  
aagaagaccg tcaaggcgga gtageggcgc tgctgccttg cttctcgtgc tgctgttctt 300  
ggattggaga ggtgatctga ccctccatt gagttgaatg aagtagcctg gaactgtggt 360  
agttcgtctt ttacatctta agctgctgat agacttcaaa taaaatcttg tccaagaaaa 420  
cattctgtga gcgtacatgt tgctcgtcag ctgtgtaatt gagcaaatcg tcagattgaa 480  
actcgggtgc tgccttgctt ttcaaatacc gcttatccag acggtgcttt tgttttgaaa 540  
aaaaaaaaann naaa 554

<210> 31339  
 <211> 228  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-C2

<400> 31339

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 ccatcgcgca ttaaaaacgg ctcccgaagg caccctgcgt gatgcgtgcc ggctgtgttc 120  
 aacctagcag cgcgtttctt aattccacgg cgctgaacgg ctgctaattct tcgaccttct 180  
 cgccgacgcc tatgaattag actgacacct gtcgttgccg ctctatcg 228

<210> 31340  
 <211> 273  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-052-Q1-K1-F3

<400> 31340

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 ggagtgaaga tcatccatgg cggacgatca atttgtgcc tcatattca ctggcgcatt 120  
 caaactccac acaagccgtg ccagactaag ttagatagat atatcagatg agctgcctga 180  
 ttcacagaat ataattggct taacatagga aaggaggtgc tgagccacgc tagctagctc 240  
 atccttttct cctaaaaaaaa aaaaaaattt taa 273

<210> 31341  
 <211> 579  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3067-052-Q1-K1-F9

<400> 31341

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 tggccatatt ttgaatggtg acattaggca aactgaaatg aagccctcaa ctggcacatc 180

agcagcaatt acctcagtag ctaatgttcc tgacttgggc gacccaaaagg agtttgaaca 240  
 tggagaaaaa ctgcaaagaa taccaaaaca gaaatatcag ccttcccata accagcagcc 300  
 ccaagacgat cagcagtggc tagtcacttg tatttcacia tatcttggat tttctgggag 360  
 caaacctgtt gcagctctcc ttatatacca atgtcttctc cattggaaat catttgaagc 420  
 catgaagacg ggtgtctttg atagcatttt gcatgctata aactcagcca cagaggttca 480  
 aaatgacatg agaacattgg cgtattgggtt gttcaactta tctacattaa cagtttttnt 540  
 tcaacgggtca ttcaaaacta ctaggaccac aatcttaac 579

<210> 31342  
 <211> 422  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-053-Q1-K1-A11  
 <400> 31342

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 tctattgccca aagctgccat tacaataata ctcatcttag ggacttcatt tcttgcagct 120  
 gccaatccaa ttgcaagatg ctatgacgct ctttaagatca gttctcatat tctataagca 180  
 tttatctcga gtcagcaatt aggaactgtg atgggttttta ggtcaccggg aagggttgtg 240  
 agaagatctt ggactgggag agaagtgcac agaagcaagt taaaatcctg ttgaagcccg 300  
 ctcatgtcat cctgcaacgt ctattcaatt ttttcttatt ccattttgtg acgttatgac 360  
 taagcatgcc aactggcatc cttagcccac ttcttatcga gcttgggtgc ataccacatg 420  
 ta 422

<210> 31343  
 <211> 172  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-053-Q1-K1-B8  
 <400> 31343

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 atcgcaactt gggaacacat acatgcaaac atcctacctc tcctatactg tcacctaaat 120

tcaactcact tgccgtcacc taacaacttc ttaactgcc aaaaaccttaa cc 172

<210> 31344

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C11

<400> 31344

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gagtgtcaaa acagtagtaa aacatcacaa gtctaaaaac gacgtgttct ccagcgacaa 120

cagtgggctg gactggacac aatcggcagg gaaatgtacg tcgaaatcaa cagaaggcac 180

ccgagcttta tttttctgtg atggaaatga tgaacgtctc aggaaatagt ttgccagaag 240

cccagaactg tgtgctctag ggctcgacca ccatgctctc cgcttccttc ttgatggact 300

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<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-C2

<400> 31345

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tgatagagta tttctttttt ttactgatgt cctgagtgga gtttccaaaa ctcttaaaat 120

accaagtttc caaacagtgt catatgacaa ctgactttgc ttttttagcgt ttttcaagat 180

taaagttttc cattcttttc tatttacctt ttacatgcgg ttattt 226

<210> 31346

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-053-Q1-K1-D12

<400> 31346

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aggataaaat ataaaaattc acaatcttac 120  
 atacacttac atactacttc ataaacacta ctatagtatc acctaaattt aaattcactg 180  
 tctctaata 188

<210> 31347  
 <211> 299  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-053-Q1-K1-F4  
 <400> 31347

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 gttattacta gtataatgct agtgtccgcc cattgcttaa tctggaatgc taccagccag 120  
 atctccatgc tctcctgtta gccactcggc agagtgagga ttactaggta ggggtggcatg 180  
 tcatgtgctc caccctccac tggtagaggt caatcaacta aagctacccc cggattgatg 240  
 aggaacatcc cgcgcgatta gtggggcatg tcattaaaaa aaaaaaatat aaattaaaa 299

<210> 31348  
 <211> 376  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-053-Q1-K1-G5  
 <400> 31348

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 cggcaccatg catctgaggc tgtcagctgg ggctgggttg caacaagaca agaagaattg 120  
 gctgcctctc aacaacattc acatctacta cctacctggc tgctttgaga attacagggc 180  
 ctctactatc tgctgctgtg ttaaactctac ctcttggtt ctccaataat tgctgctgtt 240  
 ctgtactctt ctcttatgtt ctgtctgtca gtgtgtatga gatgatgctc atcttatgtt 300  
 ataaggctta atcatgtgct tagttgtact ttctgtcttg taatgttatc agttatatga 360  
 ataataagtg ttatgt 376



<210> 31349  
 <211> 446  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-053-Q1-K1-G7  
  
 <400> 31349  
  
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 ctctgctcc agaagcagct caaggatctt gcgaagaacc ccgtggatgg gttctccgcc 180  
 gggcttgtag acgacagcaa catcttcgag tggcagggtca ccatcatcgg accgcctgac 240  
 accctatatg atggaggcta cttcaatgca ataatgacct tccccagaa ctatcccaac 300  
 agcccgccat cagtaagatt tacttctgag aattggcatc cgaatgggta tctgatgga 360  
 cgtgtttgca tttctattct tcatccacct ggtgaagatc ccaatgggta tgagcttgca 420  
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<210> 31350  
 <211> 415  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-054-Q1-K1-B7  
  
 <400> 31350  
  
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 agttctccga ggcacgcgag gacctggccg ccctggagaa ggactacgag gaggtcgccg 180  
 cagagggcgg cagtgatgac ggcgacgagg aggaggaata ctgatctgct tgcataatc 240  
 tgtttggctg tcgagccagg ttgtggtggt gaaaaacctt tgtttgtgtc ctgggtaatg 300  
 tttgggtggt tccttccatc atcacttgct gaactgctct agtatttgca tttgtaattg 360  
 aagtctgtcg ctttaagcac tcttggttct aaagatctct gtgcttttgg ggggt 415

<210> 31351  
 <211> 65  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F11

<400> 31351

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aggag 65

<210> 31352

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-F2

<400> 31352

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agctgctcat ctctcaagt ttgtgctgtg atgccagttt atcccttcta gtctattaca 120

taaatgttgt tcggatctga gtctattata aacatctttg tctgagttta ttgtttactg 180

atgccagttt ttttcaatat acatttatct taaataaa 218

<210> 31353

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-054-Q1-K1-G1

<400> 31353

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gatctccggt tagggcatga atttttgcag acgatggcca gctgacgtag gggtttgagg 180

tatcagaatg tgcataatca tgtttatggt gtacaggtgt aaatcagcca agttattgat 240

tacaagtgtg acatgagaaa tacacattaa taaaaactcc agctcggttg tacagagatt 300

gtgtttgaac ccagaaattc atgtggttat gtcgtttgat aatatatgta cctggcaggg 360

gtgaagctag gccttttttt tgtcagctgg ccttgataat tttctggata tctaataaaa 420

aaacgatgtc aataacaag 439

<210> 31354  
 <211> 309  
 <212> DNA  
 <213> Zea mays  
  
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 <400> 31354  
  
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 gcagccaccg ggggatacgc agcagcagca ccggcgact ccatcgacgt tcatatttaa 180  
 ggacttggtt tggataattc tactcgtcaa caaaagtgat taaaaatggg gggctttgca 240  
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 cgcataaaa 309

<210> 31355  
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 <212> DNA  
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 <400> 31355  
  
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 taaatt 66

<210> 31356  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-055-Q1-K1-D2  
  
 <400> 31356  
  
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 aactatatgt gatgaatgat ggcataatcag aggaagctgc gaaagctcta tctgagctta 120  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3067-055-Q1-K1-G7  
  
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 tgaggctgag ccgaccgagg cagagcccga ggccgccttg ccggcagcag agacggaggc 180  
 caaggaagca gagccggagg ccgccttgcc ggcagcagag acggaggctg ctgctgcccc 240  
 ggtcgaggct gctgagccgg agatagccgc cgagaccaa gaggtggcgg ctgtggaggc 300  
 taacgaggaa gaagaggagg cagcg 325

<210> 31358  
 <211> 117  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-055-Q1-K1-H2  
  
 <400> 31358  
  
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 ggataaaaag aaaaggacaa acagtgtcta atacaaaag aggtgaaggg acatcca 117

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 <211> 430  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-056-Q1-K1-A10  
  
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 gccacggcgt gcccggtgtcg gccccgaaaa atcaaataca caaacttata ggctcttaag 120  
 cgtgttgccg ggacgggagg ggtgtaagag gagcctcaga ggggaggaag gagagggaag 180  
 cgggtggctgg gaggtgagca ggtggcgtcg tgatggatgg gggcaagggc gagtatggga 240  
 gaggtgatag ttggagtcag gagatgggga tgggatgagc ctatctcgac aggagtgggg 300

agtttagtag gttagactat agttaatgcg ggagccaaat ggctaggaga aaatttacct 360  
 ttgccataag cctttttccc tcttttgtct tgaaggccta aatccctcat ttgggcctat 420  
 tgggtgtttta 430

<210> 31360  
 <211> 175  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-056-Q1-K1-B12  
 <400> 31360

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 gtgacagcaa attcaagaga aaaaaatata atctgcaa atgttataggct tgtct 175

<210> 31361  
 <211> 263  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-056-Q1-K1-C12  
 <400> 31361

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 tttggcagaa tatttagcaa gtttggtatac ttcaggggta tgcagaatga agtgctgttg 180  
 caaacttgct gtgtaactgc caatggcaca attgtttgta ttttgacta taatgttgca 240  
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<210> 31362  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3067-056-Q1-K1-D10  
 <400> 31362

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caatccactt gtcaatattt tgaagtaa atcttttaagg tgttgccgaa tagagagatt 180  
gaatacctat cggtagaata taattcataa tcacaactga tgatgatggc atcaccttct 240  
ccgagacaaa cttcagacca caagacaaca agttgaggaa gcaagggagg ggaatggact 300  
tggcttgact cacgttgggt acgggtcatcg gtgtaggtgc gaccggactt gggttgactc 360  
atgtcgcggc tttgtcttgg actgcgngc tgggtggaagc cactggcgag gagacggcg 419

<210> 31363

<211> 298

<212> DNA

<213> Zea mays

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<400> 31363

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acgaggcgta cggagtggaa ccagacataa tgaccttagc gaagccactg gccaacggca 120  
ttcccatcgg cgttgtcttg gtgaaggaga aggtcgccgc agccataaac tacggcgacc 180  
acggcacgac gttcggcggc gggcctctcg cctgccagac cgcgataacg gtgttcgaca 240  
agatcacgag acccggtttc ctggccgagg tgtccaggaa aggggagagc ttgaagct 298

<210> 31364

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-056-Q1-K1-H6

<400> 31364

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aagaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaaaaaa 99

<210> 31365

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-B1

<400> 31365

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aaagttgggt ggtagccttt aaaaactctg tatataatac tgtgggttta tcaatactat 120  
ggtaattttg gggatatagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaagaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaga aaaaataaat 240  
aattgaaatc aagtaaaaat aaatttaatt aactggcaca ttaattaaca acagtta 297

<210> 31366

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-D12

<400> 31366

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gggctaacat gctttagat gaccaattca aagattcggg tcggatgtat tcattgttcc 120  
gaagggttcc agatcgacta tcaactatta gagatgccat gacttggttac ttatgggcca 180  
caagtttagca gtctgtgaca aatcaaaatc gtcgggtctca gctatcgaac ttaatgtgag 240  
cattgtcaaa tgc 253

<210> 31367

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-F11

<400> 31367

aaaaaacaaa aaaaaaaaaa aaaaaaaaaa ttttaaaaaa aaaaaaaaaa aataaaagt 59

<210> 31368

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-057-Q1-K1-H3

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tgtttagtgat aggaaatagt ctaaggactg ttctacgata aagcctggag aaagctgaag 120

tggctggtga ttataagaac tgggtggcaac tcccattcct gtggtagtcc tggctgactg 180

taaatatcgt ttgacagagc attaccatgc caactcaatc tgttgtgata ctcttgtaat 240

gactagttag ttaagttgaa ctggtgggta gatacgagat actaggttat tatcgcggt 299

<210> 31369

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3067-058-Q1-K1-A7

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attatacaga ttgtttccgt ggattacaca cagatatggt acacgaaggc agagcacctc 120

gtggcggtgg taggagggtg ccttcctgct tggctgcttg ctttactgaa cgaagcacga 180

acccggggccg accggcgccc tccgagcgta gtagttcgtg acaggagccg cggcgacccc 240

acggtggttc agcaggcacc tgaagcgggtg tagccgtgac agcacggctg tctcgacgtc 300

ctgggcggtg atggcctnca gctggctcca cagacgctct gccgctgctg cggctcgggg 360

ccagattgtc tgcaggacgt ctgacgtgtc ggccgtctcg ccccatatg 409

<210> 31370

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B11

<400> 31370

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gtcccaggaa tccggcaagg aggagatcaa gaagcacgta ctcatctgcc gcgtgaagcg 120

ctcaccacgc agcgtgctct cgaagcgggtc gccgttccag gagataggca acatcagctt 180

gccacggcat cgggtgaggac cgacgagcat ggggtggcgat gttgctctgc gacctgtgtg 240



agtgatgggg ctactgcagc ggaactacga aggggttcagc tgtaagcggg agagagagta 300  
gcacgtgat cgatctgatc agcatctacg caataaataa tttatgtatg acccactgat 360  
gaataacgaa gcctgacttc tcgtcagatc ggtagtaata atcataagca gtcagt 416

<210> 31371

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-B9

<400> 31371

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gccgccgagg cctacctcgt cggcctcttc gaggacacca acctctgcgc catccacgcc 120  
aagcgtgtca ccatcatgcc caaggacatc cagctcggcc gccgcatccg tggcgagcgc 180  
gcgtagccat catctccgag gatctgatga atgtctagtt accaaaaaat aggccgtatt 240  
agcgtcgttg ttctgtattc gttatcttgg attcggttgc agtgaaaaac agctttacta 300  
atcttatttg tggcctctgg tggttgcttc gcttctaagc gatcatctgt ggtgcaaaat 360  
tcgtgctggc tattttgtca aaaaaaaaact aaaaaaattg aaa 403

<210> 31372

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C4

<400> 31372

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<210> 31373

<211> 72

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-C9

<400> 31373

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ggggaaaaaa aa

72

<210> 31374

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-E4

<400> 31374

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ggaactctgt tttgaaaaat cattccttga gtggcataat tttccaggct atggatgcta 120

gaatggatta aggagaactg atgtgataga ccttttcttt aacgtttttt ttatccctga 180

agtaaagtca gtttggacgt 200

<210> 31375

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G1

<400> 31375

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agcagtacga gagggactcc tctaagaccg gcagggattc acaggacgcc cttgctccgc 120

tggttgatgt tgcgctcaag ctctccaaga tgcaagagta cactggacgc tctgccccca 180

ccgtcatcac ataaattttg aagtgtttta gaatgagttg aggcgcttac acaaactttc 240

attccggcct cttgttccat agtttttctt gcatgttaca tctcaccgat gaataaaatg 300

tatgtatcag acttgtctcg ttaaaaaaaaa aaagaaat 338

<210> 31376

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-058-Q1-K1-G8

<400> 31376

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gtctgtttgt gtaaagccaa cagatgggtct gacctgacat gtgtttttcc aggagtcact 120  
 acttatagaa aaagcttgat cctagagggtg gtttctcccg gcaatgcaga atcttgaagc 180  
 acgtctaaag tggcttgatg atagttctaa atttcaactc cctgtcatta ccaggtgcaa 240  
 aaaagaaaaa taaaaaataa tatic 264

<210> 31377  
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 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-059-Q1-K1-D11  
 <400> 31377

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 agggggaat 69

<210> 31378  
 <211> 429  
 <212> DNA  
 <213> Zea mays  
 <223> Clone ID: LIB3067-059-Q1-K1-F7  
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 ctgtgcatca actttatttg gggatcatcag agcatttcat atccatccag atcgaccatg 180  
 ctcatcggg tccaccaggt cctcggtggt cagctgatcc atgtaggctt gatgatggta 240  
 cccgaactgc aggggaaggat cggtgtccag gtgctgaagg agcccctgat aaggatcaag 300  
 aacatttcca ctgcgccac tgtgcccacc ttctcccag gagacacgga acgcgttctc 360  
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 ccctgcttt 429

<210> 31379  
 <211> 210  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G3

<400> 31379

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaatatata aaaaataaac 180  
aaaaaaaaaa taaaaacaac aacaatcaat 210

<210> 31380

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-G6

<400> 31380

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atcttgaatc ctcgatctgg acatggtaga tctagcaaag tttttcatgg aaaagtggaa 180  
cccatattta aggtatgtct agctgagtag aagcatgcat cttatctcaa gattggatct 240  
gtgttgctgc ttctactagg aactttggta tgatctagtc atgcttccca agatcatatt 300  
tagtccggtg tttcatacaa cctaagatgt ttataaatga gttgtagaca attttataag 360  
ctttccacct tcacaaggta ctatcctttt ttcttggtca tattctggat tctgtatatt 420  
tcttggtgtg tgcaagaaat 440

<210> 31381

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3067-059-Q1-K1-H7

<400> 31381

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tgccgtggct tatttgtact gtcttcacct ggtggaattt ttgcacgtga gctacc 116

<210> 31382  
 <211> 226  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-060-Q1-K1-B12  
  
 <400> 31382  
  
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 tggttaacta ctgctgctgc ttggttgatt gtttgttcgt tcttaggtgg tctccttgta 120  
 tagtgattag tgagtcatat atacttgccg tcacacatat gccggtgtac atcatgtgtg 180  
 ctcagcatgt ctattctaaa aaaaaaaaaa aaaaaaaaaac cataga 226

<210> 31383  
 <211> 328  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-060-Q1-K1-F4  
  
 <400> 31383  
  
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 ctgagtgggtg gtcttagttt atcatgtatc gctcgcagtt taatttagcg gtttaggtgt 120  
 ggatctgtga accccatggc gcctctgctt gattcgtgtt tcacctgtta tgttctgaga 180  
 ttcatgataa tgctatgaga actgaaattc ccgtttcatg cttcttaaat ctttgacctc 240  
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 aaataaaaaa aaaaaaaaaa aaaataaa 328

<210> 31384  
 <211> 439  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3067-060-Q1-K1-F8  
  
 <400> 31384  
  
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 gtatcgaagc tgtcaggatg tccaagcgcg ccggatgggg agtgatggca agccacagga 180

gtggcgagac agaggacacc ttcattgctg acctctcagt tggcctgtct acgggceaaa 240  
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tcgaggaaga gctcgggtgat gccgcgggtct acgccggagc aaagttcagg gcaccagtgg 360  
agccctacta agaaaggaag aagatgggga tgttttcttg tggagctata ctagctcgct 420  
gctgcctttt gttacaatg 439

<210> 31385  
<211> 232  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G4

<400> 31385

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agatcttgat gcttttgaga aagaactgga tgtgcttgat caaaatggat ctagcatagg 180  
aactgcaaag tgaaaagagg ataaatgctg gctcaagaaa aacctcttat at 232

<210> 31386  
<211> 136  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-G7

<400> 31386

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agacctaaat tcaatt 136

<210> 31387  
<211> 432  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3067-060-Q1-K1-H6

<400> 31387

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 gcgatccaca ggctggagga gtggagcatc catatcgagg aggccaacag cgccaacaag 180  
 ctggtggtga ttgacttcac tgcaacatgg tgtgctccgt gccgcgccat ggctccaatt 240  
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 atgaagacca ttgctgagca attcagcgta taggcatgc caacatttct gtgcatgagg 360  
 caaggcgacg tccatgacag ggtctgtggc gcaccacatg aagagctagc acggaagctt 420  
 gaactacaca tg 432

<210> 31388

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-037-Q1-K1-C1

<400> 31388

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 tcggccggcg gtggtagtct gcctgcagct ggggttagct gcaagggttg ggagctagcc 180  
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 ttcgccaagc gccgcaacgg cctgctcaag aaggcgtacg agctctccgt gctctgcgac 300  
 gccgaagtcg cgctcatcat cttctccaac cgcggaagc tctacgagtt ctgcagcgga 360  
 cagagcatta ccaaaacact tgagaggtat gaaaaaaca gttatggagg accagatact 420  
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<210> 31389

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-057-Q1-K1-F6

<400> 31389

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ctagcagcta ccagctctcg gccggcggtg gtagtctgcc tgcagctggg gttagctgca 120  
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 tcaaccgcca ggtcaccttc gccaaagcgc gcaacggcct gctcaagaag gcgtacgagc 240  
 tctccgtgct ctgcgacgcc gaagtcgcgc tcatcatctt ctccaaccgc ggcaagctct 300  
 acgagttctg cagcggacag agcattacca aaacacttga gaggtatgaa aaaaacagtt 360  
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<210> 31390

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-025-Q1-K1-C7

<400> 31390

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 aaaggaagct gcacgagttt gaggcagagg ctgcttctcc cccacaattg gcgtggcaag 180  
 gcggaggcgg catgttgctc catgaccctc cacagccaga acatttcttc gtggctctgg 240  
 agagcaacgc gcctctgcaa cctacatacc atactatgga catgaaccag cagccagagc 300  
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<210> 31391

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-044-Q1-K1-F11

<400> 31391

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 agaacttcac gccaggtggc aagtcttcag acaaggggtga actgacaagg gccccagca 120  
 agctatcatc tgcgttttct ggtactcagg ataagtgtgc agcttgccag aaaacagtgt 180



acccgctgga gaagttaact ctggaaggcg agtcctacca caagagctgc ttcaagtgtc 240  
 cgcacggggg ctgcatcctc accacctcct cctacgccgc gctcaacggc gttctgtact 300  
 gcaagatcca cttcgcgcag ctgttcatgg agaaggggag ctacagccac atgatgaaga 360  
 agagcccgtc ccaggatacg ctgccggaca tggccgncga cgagcaaccg ncggaaccgg 420  
 cgccaccgca agacggggaa ggagaagaca ac 452

<210> 31392  
 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-022-Q1-K1-G12

<400> 31392

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 acggtgtgct gtactgcaag acccaattcg agcagctctt caaggagacc gggagcttct 180  
 ccaagaactt caccgccagg ggcaagtctt cagacaaggg tgaactgaca agggccccca 240  
 gcaagctatc atctgcgttt tctggtactc aggataagtg tgcagcttgc cagaaaacag 300  
 tgtaccgct ggagaagtta actctggaag gcgagtccta ccacaagagc tgcttcaagt 360  
 gctcgcacgg nggctgcac ctcaccacct tctnctacgc cgcgctcaac ggcgttctgt 420  
 actgcaagat ccacttcgcg cagctggtca tgga 454

<210> 31393  
 <211> 428  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-C8

<400> 31393

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 gaaaaggatc ggggggaaca ccattcctgg tatcgaggag gtcaacatct tcaaggacga 180  
 tgttgttatc cagtttcaga accctaaagt gcaagcatcc attcctgcaa atacatgggt 240

ggttagtggg gtaccccaga caaaaagtct gcaagacctt ctgccatcaa ttatcaacca 300  
 actgggccct gataacctgg acaaccttaa gaagctggct gagattttcc agaggcaggt 360  
 acctggtgct gaagcagctg cacaggatga tgacgacgtc cctgagcttg tccaaagaga 420  
 gacatttg 428

<210> 31394  
 <211> 441  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-043-Q1-K1-A2  
 <400> 31394

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 aggacacgtc tggcccttcc ctcaacatcc tcatcaagct tatggcggtt gaatcccttg 180  
 tcttcgccc ncttcttcngc cgccatggtg gcattctctt caaatggctc taagccagcg 240  
 agagacgcan gataaaagcc gtagttttgc aaggcgagta gagcagtatg tcagtaatac 300  
 agcatctatg gcatgtgctt ttgctcgtcc agttcatgag ccccgttgtg tatttggttt 360  
 ccgttttctt ggttggagtt tttagttcca aagtccgac atgttttgat ccataaatt 420  
 ctcttcagc cttcgagcaa c 441

<210> 31395  
 <211> 400  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-013-Q1-K1-H2  
 <400> 31395

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 ccttatgccg atgattgatc agggagaggc agatgacaag atcattgcag tgtgcgctga 180  
 tgatcccgag tacaggcatt acaatgatat caaggagctc ccacctcacc gcttggctga 240

aatcaggcgc ttcttcgagg actacaagaa gaatgagaac aaggagggtg ctgtgaacga 300  
 ctntctacca gcgagcgccg cttatgaagc catacagcac tctatggatc tgtatgctac 360  
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<210> 31396

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-007-Q1-K1-F9

<400> 31396

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 tgttaccgag gacttcttgc cacttcccag caaagggaaa tctgggaagg atggctggta 120  
 tctctctggg catggatgat tggttccctc tttgaataac agcggaaaac ttgacatctt 180  
 attggctcag ggcaaggagt atgtctttgt tgcaaaactca gacaacttgg gtgctatagt 240  
 cgacatcaag atcctaaacc atctgatcaa taaccagaac gagtactgca tggagggttac 300  
 tccaaagacg ctggctgacg ttaaggggtg cactctcatc tcttacgaag gaagagttca 360  
 gcttttggag attgccaag tatccgatga gcatgtgaat gaatttaaata caatcgagaa 420  
 gtttaagata ttcaacacta acaac 445

<210> 31397

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-006-Q1-K1-F10

<400> 31397

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 gtccgggcgt tcgccaccgg aggggtacgt gccatgcagc gcgtcactca gtggaacctc 120  
 gatttcatgg atcacaacga gcaaggatgat aggtaccgtg aattggccca taggggtggat 180  
 gatgctcttg ggttcatgac tgcacggggg cttacagtcg accacccgat aatgacgact 240  
 actgacttct ggacctcgca cgagtgcctt ctcttacctt acgagcaggc tcttacctgt 300  
 gaggattcca ccagtggcct tttctatgat tggtcggccc acatgttgtg gggttggtgag 360

cgcaactcgac aactcgatgg agctcatggt gaattcctcc gtggtgttgc caaccctctg 420  
ggcataaagg tgagcgacaa aatg 444

<210> 31398

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-034-Q1-K1-E6

<400> 31398

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ccaagaagga agccaccctg ggggcgtcca ccttgaaatg actgggcaga acgtgaccga 120  
gtgcatcggt ggatcacgga ccgtgacctt cgacgatctg agcgaccgct accacaccca 180  
ctgcgacca aggctgaatg cctcccagtc cctggagctc gcctttatca tcgcagagag 240  
gctgaggaag aggaggatgc gatcggggct caacagcagc ctgccactgc cgccactggc 300  
tttctgagta gccggagcca aacacaaagg agggtaggaa tagctgtggt gactcggaag 360  
agaaagagac agtcgacgcc ttggtttgtt gatgcttagt gtggtgacct ggtggtggtg 420  
gtg 423

<210> 31399

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-032-Q1-K1-D10

<400> 31399

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tgatcctatg catggaaaca ccatcaaggc cccttggtggc ctgaagactc gtccatttga 120  
ctcaattctg gctgaagtgc gcgcattctt cgatgtgcat gatcaagaat gaagtcaccc 180  
aggaggcatc caccttgaaa tgact 205

<210> 31400

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-008-Q1-K1-A11

<400> 31400

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cgtgggccga cgctgggtgcc gtagaagaag ccggtagcgc acgggaagtg tgcgggtctac 120  
agctggaggt ccaagaaggc tttgcagctc cccgagtacc cgaacgcgga tgagctggac 180  
gctgtgctga agaccatcga gacgttcccg ccggtgggtg tcgtcggaga ggctcgccgt 240  
ctcgaggagc gcatggccga ggccggcatg ggccgcgcct tcgtcctcca aggtggcgac 300  
tgctccgaga gtttcaagga gttccacgcc aacaacatgc gtgacac 347

<210> 31401

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-035-Q1-K1-A4

<400> 31401

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cgatgtagct gggaggggtg aaagtcaact caaacttgct atcaggccta tgtattcaaa 120  
ccctcctata catggtgcct ctatcgggtgc taccatactc agggacagcc agatgttcaa 180  
cgaatggact ctggaactga aagccattgc tgataagatc attcacatga ggcacaaact 240  
atttaatgcc cctaaatcca aatgaacccc tggagattgg agccatatca ttgagcacat 300  
tcggatgtac actgtgactg agctgaataa cgaacaagtc gcattcatga ggcaggaata 360  
cctcatttac atgacatctg atgatatgaa catcat 396

<210> 31402

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-012-Q1-K1-C6

<400> 31402

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cacgaacaga ggcaccaccc agcatggccc tgcaggcggc gtcctctctc tccacctctc 120

catccgtccc caagaagtgc agcctcgccg tcgcgggcgaa ggacacggca ttccttagcg 180  
tatcccagaa ggtcagtgat cagctgcata tgcattgctgc actcgagtc acaatgcgct 240  
tgaattgaac gtgtcactca ctctgtcgtg agcatgccat gcgtgcagaa ggtgcaggcg 300  
gcgtcgctgt cggtagagat cacttcgcca tctaccggcc cacggcaagg acgccgacgt 360  
tcacggcgga cggatacgag atgagcgctg gcgtcaacca cctggggccac ttcctcctgg 420  
cgcgctgct cctggacgac atgc 444

<210> 31403  
<211> 317  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-021-Q1-K1-A7  
<400> 31403

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cacgaacaga ggcaccaccc agcatggccc tgcaggcggc gctactccca tacaccctct 120  
catccgtccc caagaagtgc agcctcgccg tcgcgggcgaa tgacacggca ttccttagcg 180  
tatactacaa gaaggtgcac gggcgctcac tgtccgtgaa aacgcggtgg cgactaccgc 240  
gcctgtggcc acgccggggt ccagcaaggc ggtcaacgat gggaagaaga ccgtgcggca 300  
tgccgtggtg gtgatca 317

<210> 31404  
<211> 371  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-003-Q1-K1-H6  
<400> 31404

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ggtcgaacct ggagctggag tctatcaagg agaagaccaa ggagaaccag gagaagatta 120  
agctcaacaa gcagctgccg tacctcgctg gcaacatcgt cgagattttg gaaatgaacc 180  
ctgaggatga ggctgaagaa gatggtgcta acatcgatct ggactcacia aggaaaggaa 240  
aatgtgttgt tctgaagaca tccaccagac aaacatatt ccttcctgta attggggttag 300

ttgacccccga taagctaaag cctggcgatt tagttggagt taacatagac agctacttga 360  
tactagatac a 371

<210> 31405  
<211> 531  
<212> DNA  
<213> Zea mays  
  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-033-Q1-K1-H5  
  
<400> 31405

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aggactgatg ctgcagtcgg tctgaacact ggggagctgg tagtcttatg caaggcagaa 120  
tgaccacagg tagaacacat gagaagtatt aatgctcaac aagcatgctg tccgtacact 180  
atgtcggcta catctgtcga gatcttatgga aantgaacgc ctgatggatt gaggcttgac 240  
agaatgatgg tagctaacca tctgatcgtg agactcacag aaggaatagg ataaatgtgt 300  
atggtctaga agaccatcca ctcagacaag accatanttc cgttcctgta atatgggtta 360  
gattgatccc cgataagact agaagccatg gcgaatttag tatggagtta acataagaac 420  
agctacgttg atacttagat accattgcgc ttcaggagta ttgactcaca gggttaagtg 480  
caatggtaag tagcatgaga aaacctaaact gagggattac aaaatgacat t 531

<210> 31406  
<211> 468  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-033-Q1-K1-H9  
  
<400> 31406

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ggtcgaacct ggagctggag tctatcaagg agaagaccaa ggagaaccag gagaagatta 120  
agctcaacaa gcagctgccg tacctcgtcg gcaacatcgt cgagattttg gaaatgaacc 180  
ctgaggatga ggctgaagaa gatggtgcta acatcgatct ggactcacia aggaaggaa 240  
aatgtgttgt tctgaagaca tccaccagac aaacatatt ccttcctgta attgggttag 300

ttgaccccgga taagctaaag cctggcgatt tagttggagt taacaaagac agctacttga 360  
tactagatac attgccttca gagtatgact cacgggttaa ggcaatggaa gtagatgaga 420  
aacctactga agattacaat gacattggcg gacttgagaa acagattc 468

<210> 31407

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-005-Q1-K1-D12

<400> 31407

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ggagctccag cgtgctcgcc aacagggcat cttcattcct actccgggag acgaccagca 180  
gccaaactct actagtga aaaggtgcttt ggcgtttgac aaggactacg ctggatggga 240  
agacgagcac aggaagcaga taagcgagct gagggccgag ctcaacgcac acgccggtga 300  
cgacgagctc cggcgcatcg tggacggcgt catggcgcat caccacgaag cgttcaggct 360  
caagtgcgtg gcagccagtg cggacgcctt ccacgtgctg tcggggatgt tgaagacccc 420  
cgtggagagg tgctttatgt ggct 444

<210> 31408

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-044-Q1-K1-G10

<400> 31408

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gagcaggagc tccagcgtgc tcgccaacag ggcattctca ttctactcc gggagacgac 180  
cagcagccaa actctactag tgaaaaagggt gctttggcgt ttgacaagga ctacgctgga 240  
tgggaagacg agcacaggaa gcagataagc gagctgaggg ccgcgctcaa cgcacacgcc 300  
ggtgacgacg agctccggcg catcgtggac ggcgtcatgg cgcacacca cgaagcgttc 360



aggctcaagt gcgtggcagc cagggcggac gccttccacg tgctgtcggg gatgt 415

<210> 31409

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-041-Q1-K1-B6

<400> 31409

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gctggggcta gctggaaagg tcgggagcca tggggagggg ccgggtggag ctgaagcgga 180  
tcgagaacaa gatcaaccgc caggtcacct tcgccaagcg ccgcaacggc ctgctcaaga 240  
aggcgtacga gctctccgtg ctctgcgacg ccgaagtcgc gctcatcgtc ttctccaacc 300  
gcggaagct atacgagttc tgtagcggac cgagcatcac gagaacactt gagaggtacg 360  
aaaaaaacag tta 373

<210> 31410

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-043-Q1-K1-C7

<400> 31410

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tggagggtag ctgcagctgg ggctagctgg aaaggctggg agccatgggg aggggccggg 180  
tggagctgaa gcggatcgag aacaagatca accgccaggt caccttcgcc aagcgccgca 240  
acggcctgct caagaaggcg tacgagctct ccgtgctctg cgacgccgaa gtcgcgctca 300  
tcgtcttctc caaccgcggc aagctatacg agttctgtag cggaccgagc atcacagaaa 360  
cacttgaaag gtacgaaaaa aacagttatg caagcccaga tactgctgta cagaacatag 420  
agaacgagtt agt 433

<210> 31411

<211> 344  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-062-Q1-K1-F7  
  
 <400> 31411  
  
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 gtgatcaaac taaacatcgt gattcatcgt gaccgtacca gttctgactc cgacggtcga 180  
 cgccaccgga aagccccga tggggccgac cccggttcct cccgccgtcg ggacgcaaca 240  
 ggctgctctc gccgcccaag ccaatgtagc atagccagat gagccgacgg ataccgagcc 300  
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<210> 31412  
 <211> 419  
 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-062-Q1-K1-F9  
  
 <400> 31412  
  
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 aagaagttcc accgggtcac gcacagccgc tacgagtact cgacgccgac gtggacgggtg 120  
 tttgccacgg atgatcccaa cgcgcagtgg aacatgctgg tgaagaaaga ctcgtacacg 180  
 ccggcgtgcc cctacgcgta cccggacggc ggcgagagct ggcacatgac cgggcacctc 240  
 tgcaccccta ggaggtgctg ctgatttgtt cattggattt tggattgcat cctccttcgt 300  
 cgtcacgagc agctaccagc tactgcgacc ttcccccca aatcagtaat aaaccactag 360  
 ggaattagca gggctcttgg tgcacctgat gatgacatca gcggagccct gcctctctg 419

<210> 31413  
 <211> 279  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-062-Q1-K1-G10  
  
 <400> 31413

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 aaaagaaaaa aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaataaaaaa aaaaaaaaaa acaaaaaaaa aacaagaaat aaattcaaatt 180  
 tataaaaaaa taaaaatata aaaaaaagga gaacattaaa aatgattaaa accccaaatt 240  
 aaaaaaaatt gaaaaattaa aaaaacacta tcgactatt 279

<210> 31414  
 <211> 326  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G11

<400> 31414

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 gaaaacaaaa aaacaaccta aataaagcaa cacaattcaa cacaaacaca catatacacc 180  
 ataacttaca tctaacaaaa tcgacctacg catccaaaac cacagcacc aatcagacca 240  
 cagcaacggc tgcaaccctt gctagaacgc cacgaaacac atacccatcc cggctgccaa 300  
 aaacacccgc ggactaacac tccacg 326

<210> 31415  
 <211> 442  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G2

<400> 31415

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 ttgagaacaa cgaagatgcc cctgatgatg tcataggtgg agaggggtgaa gataaggaac 180  
 aggaaaagac caagcgtgag cgcaaaacaa caaatatat gacgaagtat gaacgtgcgc 240  
 gcatttcttg tacacgagcc ttgcagataa gcatgaatgc tccagtcatt gttgagcttg 300  
 agggagaaaac tgaccctctt gagattgcga tgaaggagct taaagcgcgc aagataacct 360

ttacgatcag acggtaccta cctgatggaa gttatgaaga ctggggagta gacgagctca 420  
 ttggggaaga ctcttgaaa cg 442

<210> 31416  
 <211> 400  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G3

<400> 31416

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 ttgcccgatt acaagtcaac tttcccaaag tggccacctg tggatcttgc aacggtggtc 180  
 ccgacactcg aaccggcggg aatcgatctc ctatctaaga tgctgcgtct agatcccagc 240  
 aagaggatca ccgcccgcgc cgacctcgag cacgactact tcagggacct cgagcacgcc 300  
 tagcatgata tggatggatg gatgaaccat ttacctgcc atgctccctc tgtaaattac 360  
 ggtagcagcc gagatgcttg gggccggcga gtaccggtt 400

<210> 31417  
 <211> 126  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G4

<400> 31417

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 gagagagact acaaaaaata acttaaacca gacacacaaa gatcaaaaga gagaaaccag 120  
 ctacaa 126

<210> 31418  
 <211> 460  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-G5

<400> 31418

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 agggctctcg cagcggataa cttaacctgt cgcgcaagga tcgggggaga gaaaccagcg 120  
 gcaacttacg tggatcgggg ttgtttggtg ctgctgcggc ggcgagggga tggaccggaa 180  
 gcgcatcaag gacgcgctcg agaagcacct ggagaggtcg tcgccgtcta cttccagggg 240  
 cgtcgtgtcc aaggagaggg agcgctcgc tgccgggaag ctgccgtcat cgcttggtgaa 300  
 ggcggaagtg tctgatggtg aagaatttga aactgacagt gaagattctg atgtgagtgg 360  
 ttccgagggga gaggacacgt cctggatttc atggttctgt acattgcgag gcaatgaatt 420  
 cttttgtgag atcgatgatg actatataca ggatgatttt 460

<210> 31419  
 <211> 396  
 <212> DNA  
 <213> Zea mays  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-062-Q1-K1-H12  
 <400> 31419

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 gatgcgccgc gtcgcgtgtg tgctcgtcgc cgccgtgtgc gcgctggcgg cgccggctgc 180  
 cgcggtcgtc actgacggtc ttctcccgaa cgccaacttc gaggatggcc cgccaagtc 240  
 ggcgctggtg aacggcacgg tgggtgtcggg cgcccacgcc atcccgcggt gggagacgtc 300  
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cggcggctgg tacagtgggt gccgtcgagg cggcggctac ggcgggtggcg ggcgccgtga 120  
 tggcggcggc ggctacggcg gtggcggcag ctacgggtggg ggcggcggcg gctaccgtgg 180  
 tgggtggcggc agctactgcg gtggcaaccg tggcggcggc tacagcaact tcgacgggaa 240  
 ctggaggaac tgagcgggtg ggcgcgcgcg gacaagttat cctgttcgct accgtgttgt 300  
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 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-H7

<400> 31421

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 gcggtctccg ccgttctctg gatggctatc gtccgacgca gcctctctta aggcgccgcg 180  
 gcagcgcgta gcggcgctgt gggggaacgg tgactacggg cggctggggc tgggttcgct 240  
 ggagtcggcg tggagcccca cggtttgccc cttcttctc gcccgcgccg gcgacccgcc 300  
 cgccttctc gcctgcggcg gcgcacatac cctcttctc acccagaatg ggcgagtgtt 360  
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 <213> Zea mays

<223> unsure at all n locations  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa gggggggggc ctttaaaaga tccaaaattt acaaccccg 240  
 aaatgcaact aaaaaatttt tcaaagggga ccccaaaata aaatacaggg gccggattta 300  
 aaaaacgtag aaacgggaaa aacctgggat aaaccaaact aaaaaaaatt tacccttgga 360  
 aaaaaatccc cttttcccaa agtggcgtaa aacaaaaag gcc 403

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 <212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-062-Q1-K1-F12  
  
 <400> 31423

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 gccggggcggc taccctgtca agccccgaa ggacgtgacc gccgacgact tccactatgg 240  
 cggcctcgcc acccccgga cggcgctgaa acccttcaag atctccctgg gtcgggccgt 300  
 cgtcaccacg ttccccggcc tgaacgggct gtggggnncc ccattctctgc cgcgcggtatg 360  
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 <211> 353  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-062-Q1-K1-D10  
  
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 cttctgacgc tcacccatgg ccaactgccga ggtccagacc ccgaccgtcg tggcgaccga 180  
 ggaagcgccg gtggtggaga ccccggtcc gcccgccgtc gtgcccagg aggctgcccc 240

cgccggcgaa gccaaagtgg aagagccagc tgccccggcg gagaccgagc cagctgccgc 300  
cgctgagccc gagggcgccc ccgtggcggc aggagagggg ggaaaagaga cgc 353

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<211> 429  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-062-Q1-K1-D11  
  
<400> 31425

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gcaaaaagata cctccctgtg ggcatacctt ccacatcaac tgcacgacc actggctctc 120  
cacaaacacc acctgccac tctgccgagt atcgctcctt cccgccccca aggcaaccag 180  
caccggactg gatctggaag cacagactgt ggtagaagag gagtccccga acgcacatca 240  
tcgccaggag gagggactag ttgatgccaa cacaccacag gaaggtgagg cggccgtagg 300  
tgacggagca agtagcgtcc agattgaaga acccccccg ggaccacga tgcggccgag 360  
ccactggtag tgacgggtgt cgctgtcgt gcacctcag ctgacgctga aggttcaccg 420  
agtacagca 429

<210> 31426  
<211> 289  
<212> DNA  
<213> Zea mays  
  
<223> Clone ID: LIB3068-062-Q1-K1-D12  
  
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cgagtgaag gggggaaatg ctgcgccacg ccgccgcgg tctcgtctcc cgcaccgccg 120  
cggcgccac cgcccgccgg gcgctcgtca cggcagaagt gcctgcggag gccgccgagg 180  
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ccctcttgt catgcagacg cgcccgcca cgccggtac cattccac 289

<210> 31427  
<211> 470  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D2

<400> 31427

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aaggagatgc ggatcctcat ggtcggcctc gacgccgcgc gtaaaaccac catcctctac  180
aagctcaagc tcggcgagat cgtcaccacc atccccacca tcggtttcaa tgttgaaact  240
gttgagtaca agaacattag cttcactgtc tgggatgtcg ggggtcagga caagatcaga  300
cctcttttga ggcattactt ccagaacacc caggggtotta ttcttgttgt ggacagcaat  360
gaccgtgacc gtgttgttga agccagagat gagctccaca ggatgctgaa cgaggatgag  420
ctacgtgatg ctgtgctgct tgtttttgcc aacaagcaag atcttcccaa   470

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<210> 31428

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D3

<400> 31428

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tcattctgcc gtggcttgac atgctcgtgt cagacatgct ctccgtctgg gccatcacac  180
tcagcattct cctctgtggc tacagcttat acttccctat atcaatatac aatcctgccg  240
ttagtgccgc tatagcagct ggtggcggat ggggc   275

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<210> 31429

<211> 479

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D7

<400> 31429

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 aggttggcat gtccattgag ggctgtattg gagctgtcaa gcgtgtcctg ggcaagatgg 180  
 aaggcgttga gtccctacgac gtagacatca tagaacaaaa ggtcacctgt aatggcaatg 240  
 ttacacctga cgccgtcctg caaactgttt ccaagactgg caagaagact tcgttctggg 300  
 aggctgacgc cgtgacaagt gaatccgtca cacctgccgg tgccaacttc tgacaagttc 360  
 gatgatcacg aagtgccttg caaggcagct aataaaaaaa tgtgaatgta tctagcttgg 420  
 aactgttaca aataatttca aactgctaac tcggtctgga cattttacat ttgctattc 479

<210> 31430  
 <211> 188  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D9

<400> 31430

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 ttgacacatc aaatggcctc caatctacac tgccgctcaa cataccgcta atgccataac 180  
 gaacgaag 188

<210> 31431  
 <211> 286  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E10

<400> 31431

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 ctgccaccgc ccttcggtgc atgcctccgc taccgcttgc cgaggctgcc tacaggcctc 180  
 tcgtcgagcg tgaggaaggg agggctcctg ccgctgccgc tcctggtgcc tcccagggcc 240  
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<210> 31432

<211> 143  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-062-Q1-K1-E12  
  
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<210> 31433  
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 <212> DNA  
 <213> Zea mays  
  
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 tctatcttgt tttttattat tatctaaaat aaccgatgaa ttatgaattt tccataactt 180  
 aaacttacgt aagtgcctta ccaacatatg tagtgtacta aaaaaaatgg aattgaaccc 240  
 cttcatgctt actataacta gttatttcgg ttttctactg gctgctttta ctataacccc 300  
 agctctatct attagcttga acaagatacg tcttatttga aatgaattga atagaataat 360  
 ctttcttttg gattcttggg attctagact cttttccaca ctaattacca attcttttct 420  
 tggtcattga gattcgtggg tagtttagac tattatttag agatagat 468

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 <212> DNA  
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 <223> unsure at all n locations  
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gcgtctcagc ttgctcagca gaaagagttc aacttgagga agcctccatc cttccactac 180  
gatttgcttc tcttaggttt cctgacgtta atgtgtggcc ttattggtat ccctccatca 240  
aatggtgtca ttccacaatc acccatgcat acgaagagtt tggctactct caagcaccag 300  
atccttcgta accggctagt agccaccgca cggaagggca tgagccagaa tgcaagcctg 360  
agccaactgt atggcagcat gcangatgct tatcagcaga tgcagacacc actggtttat 420  
cagcaacagt ctgtcagaag aggcttaaata gagctcaagg actcaac 467

<210> 31435

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E7

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caaggggtacg ggtacggcgc catgtcgtca gagctggagc tctgctgggc gcgcatcagg 180  
gacctgaggg cggagctgga gttcagacgg cgcatgcggc gcatggcgga tgcgctgagc 240  
gaggcgctgg ccgaggagct ggccgacgag cggcggcgga gcgaggccgc ggaggccgag 300  
tgccgggcgc tgctggagga ggccggcgcc tcgcgcgagg atgaggagcg cgccctggaa 360  
ggcgctcagg aggagcggcg gatgctgcgc gtcgcccagc tgtggcgaga ggagcgggtg 420  
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<210> 31436

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E8

<400> 31436

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tctatcttaa gatttattat catctaaaat aaccgatgaa ttatcaattt ttcatatctt 180

aaacttaaat aaatgcttca ccaacatatt tattgtatca aaaaacatgg aattgaaccc 240  
cttcatgctt actataacta gatatttcag ctttctactg gctgctctaa ctataacccc 300  
agctctatct attatcttca acaaaatagc tctcatatta aaccaattga ctagaataat 360  
cctacttttg gattccttat attctaaact cttttccaca ctaatcacca aatctattc 419

<210> 31437  
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<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-E9

<400> 31437

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tgtttgatac tgaaaacat atgtgagcta gcgatggctt cttgaggtga tggcttctat 180  
gagatagctc tatgaggcca gggtcgctac tgggggatga aggtcctgaa aaatatagtt 240  
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<210> 31438  
<211> 366  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-F1

<400> 31438

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aagcctccga caccgaagcc gtccccggct acgtacaccc tttctaccaa gcctacgacg 180  
cccgacccga ccccgctac agccactcca agcccaagc cttccacaca cccaactccc 240  
aagccgaccc caccgacgta cagccttcc ccaaagcctt cgacgccaa gccgaccca 300  
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ttcaca 366

<210> 31439  
<211> 410  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-F10

<400> 31439

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ttgccacgga tgatcccaac gcgcagtgga acatgctggt gaagaaagac tcgtacacgc 180  
cggcgtgccc ctacgcgtac ccggacggag gcgagagctg gcacatgacc gggcacctgt 240  
gcatccctag gaggtgctgc tgattgtgac attggatttt ggattgcata cttcttcgtc 300  
gttacgagca gctaccagct actgcgacct ttatttccca aattagtaat aaaccactag 360  
ggaattagca gggctcttgt tgcacctgat gatgacatca gcggagccct 410

<210> 31440  
<211> 182  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-F11

<400> 31440

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ttgatggcta tgtgaaactg ttgtgtgcta acttgatggc tttatgaaac tactatgtga 180  
ag 182

<210> 31441  
<211> 440  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-D1

<400> 31441

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gaaaggggtt ggcaagagtg gcaaagccct cactacaag ggaagtaagt tccacagaat 180  
catccccagc ttcattgtcc aaggaggatga cttcactctc ggggactgga ggggtggtga 240  
atctatctac ggcttgaagt ttgcggatga gaacttcaag atcaagcaca ctggtccagg 300  
ccttctgtcc atggccaatg ccgggagaga taaaaacgga tcccagtttt tcatcaccac 360  
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<210> 31442  
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<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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tacttcgttg cccgattaca agtcaacttt cccaaagtgg ccacctgtgg atcttgcaac 180  
ggtggtcccg aactcgaac cggcgggaat cgatctccta tctaagatgc tgcgtctaga 240  
tcccagcaag aggatcaccg tccgcgccgt cctcgagcac gactacttca gggacctcga 300  
gcacgcctag caggatatgg atggatggat gaaccatttt ttccngcccc tcccctgctc 360  
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<210> 31443  
<211> 414  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
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cttcggtcgc ctcgagattg agctggccga ggctgaaatg cccggcctca tggcgtgccg 180  
cgccgagttc ggcccgtcca agcccttcgc cggcgctagg atctcggggg ctcttcacat 240  
gaccatccag accgtcgtcc tcatcgagac cctcaccgcg ctcggcgccg aggtccgctg 300  
gtgctcctgc aacatcttct ccacgcagga ccacgccgtc ggcgtcacgc cgcgcgactc 360  
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<210> 31444

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-A4

<400> 31444

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ttgcccgaatt acaagtcaac tttcccaaag tggccacctg tggatcttgc aacggtgggtc 180  
ccgacactcg aaccggcggg aatcgatctc ctatctaaga tgctgcgtct agatcccagc 240  
aagaggatca ccgcccgcgc cgacctcgag cacgactact tcagggacct cgagcacgcc 300  
tagcaggata tggatggatg gatgaaccat ttcccctgcc ctgctccctc tgtaaattac 360  
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<210> 31445

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-A5

<400> 31445

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ccgacttcgc cgtccgtctc gcagcggcca ggccaggagc cgtcgagccc accgtcgccg 180  
tgaccccggc caacgtcgcg gtggcccggg cggcgctcga gcgccacggg cccgcggcga 240



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280

<210> 31446

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 31446

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cgaaatacag tcaggatttt tttgtgattt tttacttgat ctgtgagcga aactggggtc 240

tttcaccttg tcatccaatg ggttctgctc cttggtgaaa tctcccacca gccagtaaag 300

aactggggtg ttttcataat atatgctttt gctacgcagc ctctgttggt gtaaggaatt 360

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tggttggggt t 431

<210> 31447

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B1

<400> 31447

cccacgcgtc cgcccacgcg tccgcggact cttgggcgat cagctgaatg gagtgcata 60

gaggggagtt catgatctgt ggagagtgtc gaaggatgag atttgctgc cactgatgat 120

atcattgtgc caactgaacg gtctgcgctt gccgccttgc ttgatggctt tgctgtctga 180

tctcaagact aaggatttgg ggtttttacc tggggttgat cttgcaaagg ttgagtgcac 240

atgcaaggaa atgatgaatc ttgcatcaga tgatagtatc tggaagaagc ttgtatccaa 300

gtttgaaaat tatggcgagg gctctaagct ggcaggcaag aatgcaaagg ccatatttgt 360

agaagcttgg caggccaata agagacggca gaagaggccc aatccaacct tttggaact 419

<210> 31448  
<211> 108  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B10

<400> 31448

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gaatgactgg cgtaaataca cgtagcggga atcgtttgaa agtgaaag 108

<210> 31449  
<211> 427  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B2

<400> 31449

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tgcgccaacc tgaatcgctt tgtgtctcat gtgatctcat ctctgactgc ttccctgagg 120  
ttcgatggtg ccctcaatgt ggatgtgaac gagttccaga ccaacctggt tccttacccg 180  
aggatccact tcatgtcttc ctctacgca ccggtgatct cttctgcgaa ggccttccac 240  
gagcagctgt ctgtggcgga gatcaccagc agcgcgttcg agccggcttc catgatggtc 300  
aagtgcgacc cacggcacgg catgtacatg gcttgtgtgc tgatgtaccg cggcgacgtg 360  
gtgccaagg acgtgaacgc cgcggtggcc accatcaaga cgaagcgac catccagttc 420  
gtggact 427

<210> 31450  
<211> 221  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B6

<400> 31450

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ttggcctctc tacctaaaga ataaatcaag ctagcagcaa acctaccttc ggcgtgtgtc 120

tacttgctta tcatagtgtg tgtccgtgta tgagagatga tgtactgtca cgaactcacg 180  
 tgtgtatgag agaggataca tggtaagact atcactacta g 221

<210> 31451  
 <211> 441  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-B7

<400> 31451

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 gcgagagaat gcgcatactt ctgatcccat tcttcgccac cagccacatc gggccctaca 120  
 ccgacttcgc cgtccgtctc gcagcggcca ggccaggagc cgtcgagccc accgtcgccg 180  
 tgaccccggc caacgtcgcg gtggcccggt cggcgctcga gcgccactgc cccgcggcga 240  
 gcggcacggt caggatcgtc acgtaccggt tcccgcgcgt ggacggcctc gctccgggcg 300  
 tggagaacct cttcacgctc ggagacgacg cgtggcgcat cgacgccgtc gtcatcgacg 360  
 aggccctctc gcggccggcg caggaggcgc tcctcagggg gcgggtcccc gacgccgtcg 420  
 tgtcggacta ccactttctt t 441

<210> 31452  
 <211> 464  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-062-Q1-K1-B8

<400> 31452

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 gcgaaggcct tcgtggagca ttactaccga acgttcgaca ccaaccgcgc ggcgctggtt 180  
 gggctgtacc aggagacctc catgctcacc ttcgagggcc agaagtcca gggcccgtcc 240  
 gccattgccg gcaagctcgg atctctccct ttccaggcct gcgagcatca gatcgtcacc 300  
 gtcgactgcc agccatcggg tcccagggg ggcagctcgt tcttcgtctc cggttccata 360  
 cgcaccggcc ccgaagagca ccccatcaag ttctcccaag cattccattt gctgccggcc 420

gctgggtcct tcttcgtgca gaatgacatg ttccgcctga acta

464

<210> 31453  
<211> 176  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C1

<400> 31453

cccacgcgtc cgaaaaaaaa aaaaaaata tataaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaataa aaccaa 176

<210> 31454  
<211> 431  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C10

<400> 31454

cggacgcgtg ggcgacgcg tgggcgtgct gcttgggcgg acgcgtgggt ctgaattgct 60  
cagaactgta tcattaatca aaacctctgg tggactgctc atttgcaactc tgccaatgtg 120  
cagtcattaa gaatgtcctg ccctagtgcg gtgggtgaggg ctgtctctct gaatcctcag 180  
gtcgcgggtc gaatcagtct atctacattt atggggaaaa gcttgccctct atttatctct 240  
tccatagacc cccccccccc cctgcgaacc tcgggtactg ggtctgtttt attccttggt 300  
agtcgatact ggcacctttg agtttctcgt gtgggggtttt tttagcctgg tcaattgtat 360  
gagctgatta gtgctgagtt tagagctaaa caagtagagg tacattccac atggtagaca 420  
tgttttatat t 431

<210> 31455  
<211> 425  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-062-Q1-K1-C11

<400> 31455

cccacgcgtc cgagacaatg tcactctttca ctagtccaag tataactgcc atctcatgga 60

gaggatagaa gctggaaatg ccctgcacag agctttcagt gttttccttt tcaactccaa 120

atatgagttg ctactgcagc aaaggtctgc aacaaaagt acatttccac ttgtctggac 180

aaacacctgc tgtageccatc ctctctaccg cgagtcagag ttgattgagg aaaattgtgc 240

aggggtgaga aatgcagccc agcgcaaact atttgatgag ctgggaatag tggctgacga 300

attacctgtc gaccagttca ttccgcttgg gnaaaaagggg ggatgcttta caaggctcct 360

tcagatggaa aatggggcga acacgagttg gattacctct tgttcatggg tcgtgacgtg 420

aagct 425

<210> 31456

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-062-Q1-K1-A11

<400> 31456

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acacagaaac tgaatccatt gtcggagatt tacatgtcaa gtttcagaaa tgtaaactctg 120

tgctggaggc tgctgtggct gctgaatcaa aagctacgtc agcttctgat gacctgatgc 180

tggcccttca gcaactgtcc gcggagtcaa acaatgcatt gcaagaagct gagataatgc 240

agaagagtgc ggcggagcta agaggnnnaa aggggaagcc aaaaaggctc gggctgaact 300

agcagaagcc gaacaaaagt tgcagttgac gttaaaggaa gcangagagg ctaaagcagc 360

tgaa 364

<210> 31457

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C2

<400> 31457

acaaagcata acaccaactt aaaaaaaatt ttaaacaac aaaaagacaa acaccataac 60

gtatcaattt aacatttccc aagactccta aaaactaaca aaccaatata acaactaaaa 120  
 ttaaaa 126

<210> 31458  
 <211> 125  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C3

<400> 31458

cccacgcgct actccaacta tgaaatctgt ttgcacccca cagacattaa gacgccctag 60  
 gagtgcatta taaaatgtct tgtgactcat aaaaactcac atgttacttc ttcctttaat 120  
 atcaa 125

<210> 31459  
 <211> 185  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C4

<400> 31459

gaataccggc tcgaccacc gtccgtcggg tcaatccgag tacgcgccgt ctacctcgaa 60  
 gccgcgagtg gggccgacgg cggatttaag aggccagcag gcgcctacaa tctatcacct 120  
 cacgagcatt tctagcattc caccaggctc ccaactgcttc gtgcccgcac ccctgagcc 180  
 caacc 185

<210> 31460  
 <211> 477  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-062-Q1-K1-C5

<400> 31460

cgggcgagcg ctgaacctga acctggtggg ttatccggac ctggtggcga gagaccccg 60  
 gggggccttc aagacggcca tctggttctg gatgacgccg cagtcgcca agccctcgtg 120  
 ccacgcgctg atgaccggcg actggaggcc ctccgccacc gaccgcgccg cggggaggct 180

ccccggatac ggccctgacca cgaacatcat caacgggtggt ctagagtgcg gcgaggaccg 240  
ctccaccgac gggcgccaaag ccgccaagga ccgggtcggc tactacaaga ggtactgcg 300  
tatgctcgga gtgggggtacg gggacaacat ggcattgcggg agccagaagc cttacggagg 360  
atgatgacac tagtagctga tctatggttg ctgcaatgca agccttcacg tgtgtttgcc 420  
tctctaccta aagaataaat caagctagca gcaaacctac cttcggcgtg tgtctac 477

<210> 31461  
<211> 318  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F9

<400> 31461

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ccatctcggg ggcataatatt atacactccg aaggcacaaa actcatactt agtgacctaa 120  
ataccaaaac catgtcctta aactacaaa atcacacact ttacaatcta actcctatcc 180  
ctactaatca tattccatca catatcctgc accacatatt tactaataac agatagctac 240  
acacaattct tacacatatt cagatactca tacttattat ccatacctac tcgaattgca 300  
ctacatttct ctaaccct 318

<210> 31462  
<211> 447  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G1

<400> 31462

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gggaaccgaa cggaagcgag acccccggcg gctagcgaga tggacggcgg cgccggcgag 120  
gaggggaagc aggagcggca cctggtgctg gccacaagc tcttccttct atcccccccc 180  
tccgttgatg acctctcaa gtcgccctc cgcgccgaag tcctcgacac cgtgaaatcc 240  
gatgatatgg cgacgtgtt tgagtcgctg gtcgcccgcg gtgtgctgga gggggacgcc 300  
gcgctgctgg ccgagatgcg tgggaggatt gacgaggaga tccgcaagct agatgagaaa 360

attgctgatg cggaggagaa cttgggtgag agcgaagtcc gtgaagcaca tcttgccaaa 420  
tctttgtact ttataagggt cggtgag 447

<210> 31463  
<211> 249  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G11

<400> 31463

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atagacagta tactgtccta cggattttca aggtccgacc atggcacacc ggacacctcg 120  
caatctacgt cgctcttccg gccgctggac cctacctcca gctgaaccga ttccatggac 180  
gactgtccgt taagcataaa agataactct tcccagggcc ccctccagca gtctacatac 240  
tttctaaca 249

<210> 31464  
<211> 468  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G3

<400> 31464

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tcgggtgtcc aatgttttgg ttggtttttt ttacaggaga gagagctggc caaggctgcc 120  
gggaaactgg ccgactgcca gaagacgata gcttcactga gcagccagct gaaatcgttg 180  
gccgatttcg acgagttcct ccctgaaacc gagactagtg gcgccgactc agccgacgcc 240  
tgggacggcg acctgaagct gctccaccct gcaagctatc ccacgcagat tggctgtttg 300  
gcagtcacat gagtcacgat cctcgttggc aggtgggagg agaaactgtt tttgttcggg 360  
ttccaccgca tgattgctgt ggtgagattg ccatgatctt ccaccacatg ccatatagag 420  
ttaagtttat aatagtctat aggtgagaaa atgttcatat gaaagctg 468

<210> 31465  
<211> 435



<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G6

<400> 31465

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gaggagaagc agcagcgag ccggaggagg gagagcgaag atgcgccgcg tcgcgctggt 120  
gctcgtcgcc gccgtgtgcg cgctggcggc gccggtgcc gcggtcgtca ctgacggtct 180  
tctcccgaac ggcaacttcg aggatggccc gcccaagtcg gcgctggtga acggcacggt 240  
gggtgcgggc gccacgccca tcccgcggtg ggagacgtcc ggcttcgtgg agtacatcga 300  
gtcggggcac aagcaggggg acatgctgct ggtggtgccg catggcgcg acgcggtgcg 360  
gctgggcaac gaggcgtcga tccggcagcg cctggccgtg gcgcgcggcg cctactacgc 420  
catcacgttc agcgc 435

<210> 31466  
<211> 87  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G7

<400> 31466

acccacgcgt ccgaaaagac acaaaaaaaaa ttcaacaaa ttaataaaaa caaaaaaaaa 60  
aaaaaaaaaa agggagaaat attaaaa 87

<210> 31467  
<211> 247  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G8

<400> 31467

ctgggagcca atgcaggctt cgagtacatc atccaacttt aaatgttcaa gtgcttatca 60  
caaacatgaa aggctgtgat agagaaatgt tgcttcactg accaaacatc atattcatga 120  
taaatgatct atgtgtcaag attaggaggg aactgtgcta tggagatcac gacttatgac 180  
tctaaccaat aatgatgatg agctagaaag gtaaaatatc atgcacaatg actgatgtct 240

ggaccccg

247

<210> 31468

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-G9

<400> 31468

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agggcacccat aatTTTTtact agaagtggaa gagttacaca aagttcgga aatgacaca 120

agggtttatg cactaagaac aggcaagcct ttttggggtg tatccgaaga catggaaagg 180

gatgttttta tgtcagcaga ctaagccaaa gcttatggac ttgtcgatat ttaggggat 240

gaaatgattg acgagcactg cgatactgat ccagtgtggt ttctagaaat gtttaaggat 300

tggtagtggg ttgatttctt ggtaatttat cttaaaccta aattccggtt ttatgctata 360

gaaaatagaa atactttatg att 383

<210> 31469

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H10

<400> 31469

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cacaggtggg gagacttggt ataaagagga ggaggcacac gaacaggccg taccaagaga 120

atctgctcaa catggctgaa gctcggcggg agatcgtcac cgccctcaag atccaccggg 180

ccagcagcag gaggcacag caaccaagt accagcgtca tcaggagccg ccgctgcgtc 240

aaccaccgtt tgcacagctc cagcaacagc aagaatagcc gaagcacgtg caagaggcgt 300

atctggatcc aagatgaagc caaccgaagg gtgacgaaga agcatctctg gcacatacca 360

ctatgaaata cgccatcttc actaacaacc cg 392

<210> 31470

<211> 229

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H12

<400> 31470

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cggctggcca cgggctgcgg tcgctttcta acgacctggg ggcgctccaa ttccgcaaga   60
agggtacat cccgctcacc acctacctcc gcacctacaa gatcggcgac tacgtcgacg   120
tcaaggtgaa cggcgccgat cacaagggga tgccatacaa gcactaccac agtcgcaccc   180
gtcgagtatg gaacgtcacc aagcgcgcca gataccacaa cataaaciaa   229
  
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<210> 31471  
 <211> 422  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H2

<400> 31471

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gaatatcccg gccgaactcg tccgcttatg aatcctgaac tctttcttcg ggttgtaatt   60
aagcctccta aggggtgttct acgctacggt cctacaggaa ctgggaagac cctattggca   120
agggtatcgc caagtaacat cgatgccaac tttttgaaga ttgtttcaag tgctattatc   180
gacaaatata ttggagaaag tgctcgtttg attagagaaa tgtttggtga tgcacgtgac   240
caccaaccat gcacatcttt catggatgaa attgatgcta ttggtgggtcg aagatttagt   300
gagggaaacta gtgctgatcg tgagattcag cggacgttga tggagctcct taaccaatta   360
gatggatttg atgagctagg aaaggtaaaa atgatcatgg ccacaaatcg acctgatgtt   420
ct                                                                 422
  
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<210> 31472  
 <211> 207  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H3

<400> 31472

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cccacgcgtc cgaaaaatat aaaaaaaaaa aatatatatc caaataaaaa aaaaaaaaaa   60
aggaggaatt tattaataaaa aaaagggaia acaaaaaaaaaa ggacgacctt tctgatgcat   120
  
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ccttgcttcc gaatgcttgc atcctaattc atatcctttc ttttgtccaa acttaattca 180  
attgactgcc cttttacttc caacttc 207

<210> 31473  
<211> 429  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-061-Q1-K1-H4

<400> 31473

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aaccagctag ctcgggcggc agcaggcagc catcatgtcg gaggagaagc accaccactt 120  
cttcaaccac cacaagaagg acgaggagca gcccgcgggc gagtacgggt actccgagac 180  
cgaggtggtc accgtcaccg gcgagggcga gtacgagagg tacaagaagg aggagaagga 240  
gcacaagcac aagcagcacc tcggcgaggc cgggcgccatc gccgncggcg ctttcgcact 300  
ctacgagaag cagcaggcga agaaggaccc cgagcacgcg cacaggcaca agatcacgga 360  
ngaggtcgct gccgcggcag ccgtcgggcg cgggcggtac gtattccacg agcaccacga 420  
gaagaagaa 429

<210> 31474  
<211> 445  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-061-Q1-K1-H7

<400> 31474

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gaattccaga actttccgac ttcttaccta cgctgtgctg ctcatcgtgt tgcacaacat 120  
tatggcttag agactatagt ggcagatagt ttagtagaag gctcagttag caggatcggt 180  
gcaagaaaaa caccagagag caggtgtcct gcaatttcat tagcagaagt tcctagcaaa 240  
caagcaagaa atgatcatga agcagcagag aagcttaagt ttgtcattta tcaaaggccc 300  
aaagcattcc aaaatggaag cactgatttg ggaaacaaga atgggtgcacc aaaaactggt 360

gaagagagaa tagaggaata taataaagca cgagcagca ttttcaatgg ttcntgttct 420  
gcagattctg atgctgcaag tgttt 445

<210> 31475  
<211> 87  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H8

<400> 31475

cccacgcgtc cgaaatttaa aaaaaattaa aaaaaaaca aaaaaaaaa aaaaaaagg 60  
gaaaatttaa aaaataaatg gggcctc 87

<210> 31476  
<211> 253  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F8

<400> 31476

cccacgcgtc cggtcgaaaa aaaaaataat aaaaaaaaa aaaaaaaaa aaaaaaaaag 60  
aaaaaataa aaaaaaaaa agaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 120  
aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaattaa acaaattaat 180  
aaaaaaaaa acatataaaa atacaaaaca aaataattaa taaaaaata aacccataac 240  
aatataaat taa 253

<210> 31477  
<211> 313  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-H9

<400> 31477

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caggtttagga ggaggaggac gcacacgagc aggccgtacc aagagaatct gctcaacatg 120  
gcggaggcgc ggcgggagat cgtcaccgcc ctcaagatcc accgggccag cagcaggagg 180

cagcagcaac ccaagtacca gcgtcatcag gagccgcgcg tgcgtcaacc accgtttgcg 240  
cagctccagc aacagcaaga agagccgaag cacgtgcaag aggcgtttct ggatccaagt 300  
cgaagccaac cgg 313

<210> 31478  
<211> 211  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-062-Q1-K1-A10  
<400> 31478

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tgatcccatt ctcccgcaca accgataccc tcaacagcgt cccgttaaac agaaaatata 120  
actattcccg atgcctccgc cggcgtctcc atacatacta aacacgcca ctgccaatac 180  
ctcccatctc tggaaatcct aaccatattc c 211

<210> 31479  
<211> 262  
<212> DNA  
<213> Zea mays  
<223> Clone ID: LIB3068-061-Q1-K1-C6  
<400> 31479

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gatatctagc gccggccggc ctgcacgcc gccgtgttgt gcgtacgtac gtacgtatac 120  
atgtatgtat gtatatgcgc gcgtgtgatg cacgaataag cgtggctacg taatctatcg 180  
tatgtatacg tgtgtgtatg catgtgcttg tgtatgatcg tggtagcagg accgaaaaaa 240  
tgtatgcaac tctgatttac tt 262

<210> 31480  
<211> 427  
<212> DNA  
<213> Zea mays  
<223> unsure at all n locations  
<223> Clone ID: LIB3068-061-Q1-K1-C9

<400> 31480

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aatcaagaa gatggaggta tctcagcatt ccaagtactt ttgcgagttc tgtgggaagt 120

ttgctgtgaa gaggaaagca gttggaattt ggggggtgcaa ggactgtggg aaggtgaagg 180

ctgggtggtgc ttacaccatg aacactgcta gtgcggtcac cgtcaggagc acgatccgtc 240

gcctgaggga gcagactgaa gcatgatata gctctttata ttattgggggt ttctctgtagt 300

tgctcttgtc aggcatgttg tggggggcctt atctagtgga aatgtggaat cactgtactg 360

gctgttttgc cgagacaatg ctctttatat ntggtttatg ctctaggatc tcaaagttgt 420

gtngttg 427

<210> 31481

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D10

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gaagcaccac caccaccacc tgataacca caagaaggac gaggagcacg ccgcagccgc 180

aggatacaga tagtccgccg agtacacaga cgccacagtg actgagggtca gctccacagg 240

cgataacgat tactacgagt acaataagga agagaagcag cacaagcaca agc 293

<210> 31482

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D12

<400> 31482

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agaaagaagc agctgtttca aaccacgggg ggcccgaata accatcaccc accatcaca 120

cgcaccaaca ccaccacctg aaacaccaca aaagagacca caagcacgcc gcacgcccaa 180

gacaccataa gaccgccgag cacacacacg acacaatcac taaaccgagc cccacagacg 240  
acaaccagta cga 253

<210> 31483  
<211> 296  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D3

<400> 31483

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aaaaaaaaa cgaagattta aaaaaaaaaa caggaaaacc aaaaaaacca aaaaaaaaaa 120  
aaaaaacggc caacctctct ataataccca agtttacata ccctgccatc cacttgcaat 180  
agcttccaac accgccaccc aaactaaatt catggcccgcc ttttatccaa ctctattcct 240  
gaaaaaaccc aaccattacc caacttatac caattgcca aacttccact ttaaca 296

<210> 31484  
<211> 469  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D4

<400> 31484

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aggaaaagct agctagcagc taccagctct cggccggcgg tggtagtctg cctgcagctg 180  
gggttagctg caagggttgg gagctagcca tggggagggg tcgggtggag ctgaagcgga 240  
tcgagaacaa gatcaaccgc caggtcacct tcgccaagcg ccgcaacggc ctgctcaaga 300  
aggcgtagca gctctccgtg ctctgcgacg ccgaagtcgc gctcatcatc ttctccaacc 360  
gcggcaagct ctacgagttc tgcagcggac agagcattac caaaacactt gagaggtatg 420  
aaaaatacag ttatggagga ccagatactg ctgtacagaa catggagaa 469

<210> 31485  
<211> 439  
<212> DNA



<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D7

<400> 31485

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cgccacacca caaccgctcg aagcgaagca agcaatggcc ggagtcggat cgaaggccct  120
cgccgttgcc gccgttctgg cggccgtctc cctctcggtg gccgccgagg cggaggcgcc  180
ggcgcccagc cccgtctccg ccgccgtcgc ggcgtcgtcg cccttcgccg cggccctcgt  240
cgctccgcc gccgccttcc tcttcgccgc cgtccgccac tgagccgatg gggcctcgtg  300
cctgcaggct acctagcagt acttcgccgc ctgctgccgc cgcgcctag atctatttat  360
tggagtgcta tccagtagta ctagtagtag tgagatttct tcggtgctgt cgtgtcgtcg  420
tcgcattttg gtcggatct                                     439

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<210> 31486

<211> 138

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-D8

<400> 31486

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aaataaaaaag aaaattttaa aaaaaaaaaa gaaacaaaaa aaaaaaaaaa aaaaaataaa  120
aaaaataaaa tataaaat                                     138

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<210> 31487

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E10

<400> 31487

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atactaagt agccttctaa taactcattc cctcctaaat tcacctcaa atagcttcaa  120
cccacaccaa tcttatctcg taaaccaat aattacatgc atcatcgtcc catctccctc  180

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aacctattat caaacatcaa atacccatta ctacgccatc ttcttccact agccattcca 240  
cctaattcttt atctccaaat accccatttt tccaaccaa ac 282

<210> 31488  
<211> 269  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E11

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tatcctgtta agccaatgat cagaaccata tgtctctcat cgcaactccac atattatcac 180  
accttaaata tgtattacca cacatctgct tcgatgagca ctgccacgta atctatatct 240  
tcaaaccgga catttttggc aagcacaac 269

<210> 31489  
<211> 185  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E12

<400> 31489

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ccctcctaac cataaaaaaga caacacataa aaaatataac ccaatcacca cacatcttaa 120  
ctcactagcc aatcacccgga aacttcagcc tcaaaaccca cattttaaca aaaaaactaa 180  
taaaa 185

<210> 31490  
<211> 418  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E2

<400> 31490

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ccccggtgac tttttcatag atgcatcggg cccatccaac ctgataggaa aagctagcta 120  
 gcatttacca tctctaggcc ggcggctgta gtctgcctgc agctgatggt agctacaaac 180  
 attgggagct agccatgtgg agggatcccc tggagctaaa acagatcgag aacaagatca 240  
 accgccagag caccttagtc aaacgcctca acggcctgct caagaatgct tacgaacact 300  
 tcgagctctg caacacctaa gtctcactca acattctctt caaccgccga aagctctaca 360  
 agttctgcat ccgacaaaac attaccaaaa cacttgatag gactaaaaaa acattatt 418

<210> 31491  
 <211> 195  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E3

<400> 31491  
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 aaaaaaaaaa aaaaaaaaaa gaaggattaa aaaaaaaaaa aggccgaaaa aaaaaaata 120  
 aaaaaaaaaa ataaaaaaca aaaaaataaa aaaactaaaa tattattata aataaatata 180  
 aaattaaaaa ataaa 195

<210> 31492  
 <211> 167  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-E4

<400> 31492  
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 agaaatttta taaaaaaaaa aaggcaatca aaaaaaaaaa aaaaaataaa aaaaaaaaaa 120  
 aaaaaaaaaa taaaaaataa aatcctatta aaaaataatc aaaacaa 167

<210> 31493  
 <211> 234  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F10

<400> 31493

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cttatggggg tgtagtata ttggttgccg tgaatctata ataaaaacga ggtaaactag 120

gacaatgatg atgtggccgt gtgtatttaa tgtattctgt tcacaattaa aaaaaaaaaa 180

ataaaataaa aacaaataaa ataaaaaaaa acaaaaatac agtatagata aaaa 234

<210> 31494

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-F2

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acacgctccg caccttaaaa gacaccagcg gcgccacaa caccggcac caacaacaag 120

agagcactgc acaaagcaac aacatcgcaa agcgacacat tcagcaccgc ataagcacca 180

catgaccccc gacacaccca aaggcccgga ggaccgaag aaaaaagacc tacagacact 240

ttggggcaac cgccactgat agccctaggc gaacaaccgc gactactaca acaa 294

<210> 31495

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-C3

<400> 31495

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aaaagtcccc gttggtttta taagaatggc agttcttaga tgctgatttt gatgaaaatt 120

gatcattcaa cgtcactgta agagttgact gccatggttt gtgacaaggt tgccatgggt 180

tgctgcaccg tcagcctact atttgagggt tcatttgcca tcgcaacata tacagacgca 240

cgatcatttt tcttccattc tggagtaata gtccaagcct gaactgtgac attccgtcat 300

gcttatacgt gaaattgtac c 321

<210> 31496

<211> 350  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-061-Q1-K1-F4  
  
 <400> 31496  
  
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 ggaggathtt aaaaaacaaa aagacgcca aaaaaacaac caactatcaa acccaaaaac 120  
 agaactccag atcaatcgcc ataacggcac ccacctactc accattccag acttattcac 180  
 ttctgcctaa gccaaagcta ccatcgatat cgcttactca aacgacttca ctcaccactg 240  
 cagcctaccg ccactaaatg ccgatgctta catagacaac tatcgtatat ctgagactca 300  
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<210> 31497  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-061-Q1-K1-F6  
  
 <400> 31497  
  
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 acatccggca gacattttta aaaaggcggg gggcccaaca aaagatcccc aacaatcaat 120  
 cccaagaacc atctccagat caatcacctc aataccaccc acctttctac catctccaaa 180  
 cttcttcaet tcttcccatg ccaatgcctt caacgacata tctcaatcta aacactttac 240  
 tcaccatagc atcattttctc actctaactt tctattctta ctttaacaac aatcttacat 300  
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 acacacatt 369

<210> 31498  
 <211> 405  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-061-Q1-K1-A11  
  
 <400> 31498

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 caaagttctc tgggttatct ctttggaagc ggtgagcccc ccaaaccagc agtggcacca 180  
 gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc ggccaagcac 240  
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 ggcaacttcc ttacggaccg ttcttcaacc aaggtccacg ctgctcctgg cgggtggctct 360  
 tccttgggct acctgttcgg tggcaactga tgcccggtgt ggtgc 405

<210> 31499  
 <211> 314  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-A12

<400> 31499

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 caactgtggc caaggagag cgcttcacct catggagctc aatgacctgt cactaccatc 180  
 aatggcgcta tacaacctg ctacacctgc tgacacacca taccctgcaa gagactgatg 240  
 cactcaagca ctttgtgtt ctgcatacca gccaaaccaa tcacgtccac aatgctgatg 300  
 gtcagaacac tggc 314

<210> 31500  
 <211> 135  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-A2

<400> 31500

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 acataaaact cactt 135

<210> 31501

<211> 384  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-061-Q1-K1-A3  
  
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 gtgcaacagt gtttacgggg tgaactgctg gagttggcgt tagatagtcg atggtctact 180  
 gccgccgtgc tctctcacta ccagtgtccc accaccgcca tgcattgtttt ggggcaattg 240  
 ccggctacta tactcctccg tctccaatca tcaggcacca gcttgcgacg caacttgat 300  
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 caactgtgcc tgtagctgat gcat 384

<210> 31502  
 <211> 256  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-061-Q1-K1-A4  
  
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 ccatcacacc ctgcctctcc tactcccaca gcacggggaa cggccctcc gcgtcctgct 180  
 tcagcaacat caggaacctc aagagcgcca acagcaccac cgccaacaag cagcccgaca 240  
 gcaactgcct caagaa 256

<210> 31503  
 <211> 437  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-061-Q1-K1-A6  
  
 <400> 31503  
  
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gttctagctc gtttcattat ccatggctga ggagaagcac caccaccacc acctgttcca 120  
ccacaagaag gacgaggagc aggccgcggc cggcgggtac ggcgagtccg ccgagtacac 180  
ggaggccacg gtgacggagg tcgtgtccac gggcgagaac gagtacgacg agtacaagaa 240  
ggaggagaag cagcacaagc acaagcagca cctcggcgag gccggcgcca tcgccgcggg 300  
cgccttcgca ctctacgaga agcacgaggc gaagaatgac ccggagcagc cgcaccgtca 360  
caagatcgag gaagatgtcc cggctgccgc tgccgtcggc tccggcggtt tcgcctttca 420  
cgagcaccac gagaaga 437

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<211> 426  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-061-Q1-K1-A7

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ttcaaacaat ttttaagtcg ttctgcgctc cttctattac gagcaacggt ttatattctg 180  
tgcttgcata atgaatcgaa gaaatcctga caccaatcga actgaagatc ctgaaacgca 240  
cgtaataacc gttgacgtcc gcttcaccca gctcgatttt cagtcttgta atactaatcg 300  
ctccatgagt ctgaagtgtg caaaaattta ggtcgcagct acacaaattt acatgctggg 360  
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attata 426

<210> 31505  
<211> 348  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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 nntccagccc tcnnngtcgg cttttctnnn tcgcaccntn cgtcactnccg tgcgggtcan 180  
 gnncacctca ccaggggttc atttaaattg gnnacagagac cgggggtgttc taaccccnnc 240  
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 tcnnaccaag ccnnncttcc ttggggatgt cttgcaagcc caaatctt 348

<210> 31506  
 <211> 411  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-A9

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 atgatgtgaa gatcaaacac aaagcatggg aagagcaaga ggagccaggg aaagcccaag 180  
 acaaagcata gaaaatccaa gttaattgaa gcgggattca agaaatttcc aaggaaatat 240  
 taggcaagac agataaattg ttggaagcac tggagccaaa ccttgacaaa gaagagaaga 300  
 ttcaagaaaa ggaagagcaa cacctcgaag aagtggataa tgttcaagag aatgaaggca 360  
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 <211> 249  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B10

<400> 31507

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 caataagtaa aacaacgtca caaggagtgg taattcacia gcgcccacag gctcccat 180  
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 ctttaaacy 249

<210> 31508  
 <211> 123  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-061-Q1-K1-B11  
  
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 tct 123

<210> 31509  
 <211> 185  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-061-Q1-K1-B12  
  
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 tcatc 185

<210> 31510  
 <211> 176  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-061-Q1-K1-B3  
  
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 aaaaaaaaaa aaggagggat tccaaaacaa acagacgcat acatacaaca aaaataacat 120  
 caaacatatt acaaccataa atacaattca acttccatca atctacaacc taatac 176

<210> 31511  
 <211> 447  
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B6

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ggataagaac gtcccatatg tatttggtcc atcgaaacaa gctcttggcc gtgcttgtgg 180  
tgtgacaaga cccgtcattg cttgctcagt gaccagcaat gagggtagcc agctgaaaca 240  
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ttcagtgtga tgggccttgg cgacacattt ttcagaggct tggactggtg atggtgtctt 360  
gtttacatta cgctttccaa actatatctg aacactgcta agtcaatcat atttgaattg 420  
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<210> 31512

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B8

<400> 31512

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aagaaaggcc cacacaactc tgagaaaatt cttggtattg tcaatgagct agagtccctt 180  
aagccagttg tgcagcaaca aattgccacc ggtaatagca ggggtgcaga tgaacctaat 240  
ggtgtatatg gaacctatgc tgcaagtagt gagttggagc accatacccc aagcccatat 300  
gtgtcgaagt ctttgtctgg aagccctact agactactgc agaaaccatt acctggttca 360  
aagcatcaag cagctatgtc gcacaatgtt caaccttata gacatgctat tgaacctatc 420  
accaacatgc t 431

<210> 31513

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-060-Q1-K1-H8

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gatagggggg gaatcctcaa gtgctcggtta cataaaccct aacctcggtg gattcgcagc 120  
aaaagcccac caattggaag ccttcgatg ttccagctgc atgctggagc tgagccgtgc 180  
tcggtttgac gaaattttgc atcccttctg tgcttgacc acccgattga ggctgtttct 240  
ccgagggggc gtgccagcgg tttecgggcc caggctccta cctgtgctat ccggcgccgg 300  
atccgggttt gttccggtga gaggtcgggc ttttggtggg gtctgtacag cttggagctc 360  
aatttgccgg cctgagttgg agtcgcgact gcngtggcgg tgattgaggt agtcgcgtcg 420  
aattggcacg cg 432

<210> 31514  
<211> 365  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-B9

<400> 31514

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cattgtcaaa gccttcgcac acataaaatg cactgtgctg gcccctgccca agatcattgc 120  
caccaaaccg gacgatggag cgaagattaa ctatgtcgaa ggtcacatgt tcagtttcat 180  
tccacctgct caaactgtcg tgctaaagct tgtgctgcaa cacctgaccg atgaggactg 240  
cgtcaagctc ctggctcaat gcctgaaggc gattccttca cggaaggacg gctggtaaag 300  
tataatcggg gatattatga ttgaccactc tgggcttatg ctggatacct aacctctgat 360  
ggaca 365

<210> 31515  
<211> 218  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-061-Q1-K1-C2

<400> 31515

ccacgcgtcc gaccaggcgc acacaacttc ccccgagcca tcgttatcca ctcccccatg 60  
atcccatcac cgaagtttat aaacaaccgg ggccaccaca aacaaactga actggacacc 120  
aacatcctat cggttaaccc caactgcact ctcaacaccc gcaattacac tgaagtcaac 180  
ccctacctga ccaacataat ctacgccagt taacctca 218

<210> 31516  
<211> 249  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F6

<400> 31516

gcgcccacgc gtccgcccac gcgtttgcct acgcgtccgc ccacgcgtcc gccacgcgt 60  
ccgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180  
aaaaaaca aa aaaaaaaaaa aaaaaaaaaa agaaagaaaa aaggggtgct tcattaagaa 240  
tgacaaatt 249

<210> 31517  
<211> 263  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F8

<400> 31517

ggtggcgcca tgggagggct ccggcagcac acagtgtca tctctaccca gcacgacgag 60  
acagtgcgc aacgacgaga ttggtggtga cctggatgag caggttatag agcccgacat 120  
tgccgatcag taccattact agaagacaat gtgccagcta aacacgtctg ggcgcttcat 180  
cattggttga cctgacaggc acgcccgcgt cactggacgg cagatcattc gagacaccta 240  
cgggtggctgc tgagcccact gac 263

<210> 31518  
<211> 325  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F9

<400> 31518

cccacgcgtc cgaaaaaaaa aaataaataa aaaaaaaaaa aaaaaaaaaa aaaaagaaga 60  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
aaaaaaaaaa aaataaaaaa taaaaaaaaa aaacaaaaaa aaaattaaat aaaaaaaaaa 180  
ataaaaaaaaa aaaaaaaagt aaaaaaaaat aacataacaa aacttaaaca aaaataaaac 240  
aaaatccctt tataaacaaa taacaaatta tctaataggc cttaacatat aacgcttccc 300  
aacatttgcc aatcctaaat gccca 325

<210> 31519

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-G2

<400> 31519

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gggtggcgcc atggttccca tccgtgtgca cacagtcctc atctctaccc agcacgacga 120  
gacagtcacc aacgacgaga ttgctgctga cctgaaggag cacgtcatca agccagtcac 180  
ccccgagcag tacctcgacg agaagacaat cttccacctc aaccggtctg gccgcttcgt 240  
catcggcgga cctcacggcg acgccggcct cactggccgg aagatcatca tcgacaccta 300  
cggtggctgg ggagcccacg gcgggggcgc cttcttcggc aaggaccga ccaaggtgga 360  
ccgcagcggg gcctacgtcg cgaggcangc tgccaagagc atcgtc 406

<210> 31520

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G3

<400> 31520

ggcgatttgg ccaaggttgc ttcttgtcga atcctgctcg agttgggcct tgggcgtgcc 60

gaggggtgcgc ccactccctg aggaggtctc cgggcgagac gtaacttcgt tcgggactac 120  
 agttcccgcc cgagggttggg ctcggtgag gcgagatcgc gccccttggg tagacgaagc 180  
 cttgacctga atcgcgcca tcagtctctg cagcttgcgc tgatggtggt taccagccgt 240  
 gtttaggagt gttgggggta cccctaatta tggtagccga caaaaagata ctagtatctc 300  
 cactatttgg gtctattcgg tggaccgaat agaccgaacc aaaattgtga gtctattcgg 360  
 gttcggttcc taaaatta 378

<210> 31521  
 <211> 374  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G4

<400> 31521  
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 ggttaactca tctagagttc aggatgaagt catagctccc aacaagatct ggattgttca 120  
 ttgatgcttg gattgcctga tcacgataag aatgtgttga aatcagcagc tatgttttct 180  
 cggggagatt cagctggcat tttccatgaa gttttgcacg aagtgtatct tgtaccatat 240  
 tgagttcagt tgtcggataa agttttgttg gtaggtcaga aaggctgctg caagtcacg 300  
 gtgtaaattt tcttttatta gtttcattaa tgtcctcaat agtcggtgtt tccaagttgg 360  
 agaaaggaaa gaac 374

<210> 31522  
 <211> 328  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G5

<400> 31522  
 aaaaaaaaaa aaaaaaaaaa aaataaaata aaaaaaaaaa aaaaaaaaaa aaaaaggaaa 60  
 gaaaaagtac ccacataacg tggtagcgat atctagcaaa aagatgaaac taaaatggaa 120  
 ctaccgttcc cgcccgatgc aaagctaagg tgcggggaga tcggggcctt gggtacgacc 180  
 aagccttgac ctgcacgcgc cccatcaatc tctgcagctt gcgctgatgg tgggtaccag 240

acgcgttttag gaatggtggg ggtaccccta attatggcac ccggcacaca gatactagtg 300  
tctacactat ttgggtctat tcggttga 328

<210> 31523  
<211> 294  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G6

<400> 31523

tgcctctgta cgacgccctc gtaggctcga acaggcagaa gttgcagtcc tggtcctgtg 60  
tcatgcctct gtacgaagcc ctccgaggga ccatcagctc cagatcgtgg gggctgcaga 120  
gagaggtcga ccaaggcatg aacgaccggg tgccggactt cgtgttcctg gcgcacgtgg 180  
tggacgtggt gtcgtcgatg cacgtgcctt tcgccttcctg ctctgcagc tcgctgccgt 240  
gggccatgcg ctccgtgctg ctcccgtctt ggcccgtcgc cttcgccttc atgc 294

<210> 31524  
<211> 369  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-G7

<400> 31524

cccacgcgtc cggctctctt tgtgagtctg agctgaagag gaggaggagg aggaggagaa 60  
gcagcagcgc agccggagga gggagagcga agatgcgccg cgtcgcgctg ttgctcgtcg 120  
ccgccgtgtg cgcgctggcg gcgccggctg ccgcggtcgt cactgacggt cttctcccga 180  
acggcaactt cgaggatggc ccgcccaagt cggcgtggt gaacggcacg gtggtgtcgg 240  
gcgcccacgc catcccgcgg tgggagacgt ccggttcgt ggagtacac gagtcggggc 300  
acaagcaggg ggacatgctg ctggtggtgc ccgcaggcgc gcacgcggtg cggctgggca 360  
acgaggcgt 369

<210> 31525  
<211> 388  
<212> DNA  
<213> Zea mays



<223> Clone ID: LIB3068-060-Q1-K1-G8

<400> 31525

ggcaaggcgt acgtggcacg ctgcgtcca tctccacaac gacgaccttc atggcggtgc 60  
cggcctccgc ctccgcgtgc gcgtgcacgc gcgcgggccc gccgcagccc cgccaccgcg 120  
cgcgtagtgc cgccgcgacc gcggcggtgt tcttgcctcg ccgccaccag cgaccgccac 180  
ggcagataat aaacatcgtc gacgaccgcc gtgccagctc cgatctccgc tgccggcgac 240  
ggctcctcac ggcgcgaggc gacgcccgtt cccacgacga cgacgaggac gaggagcaga 300  
cgtcgtctgc tgggtggtgt tacggctcgt tcggcgcggc ggtggcgctg ttcaaccgcg 360  
gcgagtacca cgcgtgccac gacgtggt 388

<210> 31526

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-G9

<400> 31526

gaacgtcgta cgagaacctt tctcccttct ccacctttct ccttttcttg ccacggggga 60  
acaccttcgc cggcgagagc atggcgatgg cgtaccgtgt cctggaggtc accctggtgt 120  
cggcaaatga cctcaagaaa gtgtcgctct tctcccgac tcgcatctac gccgtggctt 180  
ccatctccgg attcgacctc cgcattcctt cccacagcac ccaagcagac cacagcaacg 240  
gctgcaacct ctgctggaac gccgtggtac acttccccat cccggctgcc gctgacacct 300  
gcggcctcgc actccacgtg aggtccgnc ggcccccccc cagcgtctat acctgggcga 360  
tcgcgacatc ggcgaggtgt ttgtgcccac cgacgacctc ctggccggcg ccgacaaggg 420  
tggcgatcc 429

<210> 31527

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-H1

<400> 31527

agttgacatg accaatttga tgaagcttcg ttctgattat aaagatgaat ttgtcacaaa 60

gcatgggtga aaattgggtc ttatgtcttg ctttgtcaag gctgctgttt ctgcacttca 120

aaaccagcca attgtcaatg ctgtcattga tggatgatgac atcatataca gagactacgt 180

agacatcagt gttgctgttg gcacttccaa gggccttggtg gttcctgtta tccgagatgc 240

tgataccatg aactttgctg acattgagaa agggataaac aaccttgcaa agaaagcaac 300

tganggggcy ctctcaattg atgacatggc aggaggaaca ttcacatct tcaacgggtg 360

tgtctatgga agcctnctca gcacacctat catcaaccct tcacagtc 408

<210> 31528

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H10

<400> 31528

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gttaagcgca aggcgggtcc cgccgagtc cccgccgcgc tggaggcagc caccaccaac 120

caccgccacg agccggcgtc ctccgagccc aagccacgcg gctccatcta ctccccatc 180

actgacgacc ctgccgaacc caacgccgcc gaagaggacg aggacgaggg cgccggcgac 240

gactaggacg acgcggagga cattgtcaag ctacttgagc cgctgtcgcg ggag 294

<210> 31529

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-H11

<400> 31529

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tgcaagaggc cgttccagct ggcgcggtcg ctgacgtacc accaccaccc ggggcaccgg 120

ccggcggtcg tgtccaggtg gcggcggcag caccagcagc atcagctcgc ggacgagccg 180

cgcgctcccc ggccgcaggc ggtggtgctg tacacgacgt cgctgcgcgg ggtgcggcgc 240

acgttcgcgg actgcgcgcg ggtgcgcgcc atcctgcgcg gcttccgcgt ggccgttgac 300  
gagcgggacg tgtccatgga cgcggcgctc nccccggggg gggggaggte caggcgctgc 360  
tgccgcgcg 369

<210> 31530  
<211> 319  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-H3

<400> 31530

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aggagtatgg gagcgtatga cgcggcgctc cagaagaaga aggggttcgt gctgccgagg 120  
cctaagatgt ccaacgctga cctgggcagg atcatcaact ctgacgaggt gcagtctgtg 180  
gtgaagccac tcaacaagga ggtgaagcgc acggagaaga ggaagaaccc actcaagaac 240  
atggctgctg tgctcaaact caaccctac ctcggcactg cccggaagat ggacaccctt 300  
gctgaggctg ctggtgtga 319

<210> 31531  
<211> 411  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-060-Q1-K1-H4

<400> 31531

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ggaaatcctc aagtgtcgt tacataaacc ctaacctcgt tggattcgca gcaaaagccc 120  
accaattgga agccctccga tgttccagct gcatgctgga gctgagccgt gctcggtttg 180  
acgaaatctt gcacccctc tgtgcttgga ccaccgatt gaggtgttt ctccgagggg 240  
gcgtgccagc ggtttcgcgg ccaggtcct cacctgtgct atccggcgcc ggatccgggt 300  
ttgttccggt gagaggctcg gcttttggtg gggctgtgtac agcttggagc tcaatttgcc 360  
ggcctgagtt ggagtcgcga ctgcngtggc ggtgattgag gtagtcgcgt c 411

<210> 31532  
 <211> 267  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-060-Q1-K1-F5  
  
 <400> 31532  
  
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 gagtcgacaa gctcactccg agaggaaagg atgaagtggg ggcgtatgag gccactgcag 120  
 aagcgaaaca tctaatatgt gagcggagat ccctgaattg catggatcga gtgaactagt 180  
 ctctgagaaa ctatggggag tgaacttgat ggctctgtga aactgtgcta tgccaactag 240  
 atggctatat gaaacgacca tgtgaag 267

<210> 31533  
 <211> 61  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-060-Q1-K1-H6  
  
 <400> 31533  
  
 cccacgcgtc cgataaaaaa taaaaataaa aaaaaaaaaa aaaaaaaaaa aaggaggaggaa 60  
 t 61

<210> 31534  
 <211> 369  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-060-Q1-K1-H7  
  
 <400> 31534  
  
 gcccccggtg gccaccttgg gctctttttg atctggaccc agagcgcgtt caataagctc 60  
 gaggaggtgt atgggagcta tgacgccccg tcgcagaaga agaagggtt cgtgctgccg 120  
 aggctaaga tgtccaacgc tgacctgggc aggatcatca actctgacga ggtgcagtct 180  
 gtggtgaagc cactcaacaa ggaggtgaag cgcagggaga agaggaagaa cccactcaag 240  
 aacatggctg ctgtgctcaa actcaacccc tacctcggca ctgcccggaa gatggccacc 300

cttgctgagg ctgctcgtgt gaaggccagg aaggcgaagc tcgactccaa gaggaccaag 360  
 cttacccccg 369

<210> 31535  
 <211> 418  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-060-Q1-K1-D3

<400> 31535

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 tcagccgctg agctggtcac ggcgctgtct ctcccccca ctaagetgcc gttcctccgc 180  
 cgcctgctgc ggctcctcgc cgcgtcgggc gtgttcaccg tcgacaagca gagcacggag 240  
 gaggagcggg accgcatcag ccccggtgtcc tacctcctgg tggacggcat ccctcacgag 300  
 gaccacatga accacaccgc tctggtgctc acctgcacct cgacgcgcta catcgaggcg 360  
 gngatagggc tggcggagtg gttcaagagg gacgtggtca cgttaccgtt cgaggagc 418

<210> 31536  
 <211> 208  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D5

<400> 31536

cccacgcgtc cgaacaaaaa attagatata ataactaata acaactaaaa aaaagcagga 60  
 aaaatctcca aaaaaactag gcctccacac tatcaacaac ccccatctct acatctgcct 120  
 aaatccatca tcttatcact tctctaactc tccctaccac taatctaccg ctctctcttc 180  
 tacaacttcg cgatttctaaa aaccctgg 208

<210> 31537  
 <211> 220  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D6

<400> 31537

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gggcatgagg gacgcagtga tgtacataaa gacgggagcc aacctctgcc cagccgatcc 120

gatgattcaa gaaaactcga ccgatcgac gggaccgagc acccaaaggc agcaccaaaa 180

agaatgcccg agaaccaaca ggggaaaggc cgcataacgc 220

<210> 31538

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D7

<400> 31538

cggacgcatg ggctgacgcg tgtgagtaca gacctaacct gatcaacaaa ttgggggggg 60

cgttcgatgc tcatctagga gacctcacgc agaggcaact actagctgcc ggtgccacaa 120

tcaatg 126

<210> 31539

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D8

<400> 31539

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ccttgatgga ttcacatttg attcagatga ggagggtgac aaactctatg aaccacaggc 120

taatcaaaac gatctgaata ataacgaaga tgaaggtcaa cctaaggcaa agaccaaag 180

gaaagcagag aaaacaacgg ggaatgcacc gaagaaggcg aatgttgag gaaagggccc 240

taaaatgggc acgaggaaaa cccaacctgc gaagagaggt aggaaggcta agaatgatg 300

acatgttgat ttctctggat aagaagaaaa agtctattga gaacctggat agctggcaac 360

aaagatgtga atttttcaac gcatagtcac g 391

<210> 31540

<211> 233

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D9

<400> 31540

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 aaattacaac gtataaccgc aacttttaaac tcaaactaat actacaatct atttacacaa 120  
 acaacatcat ccacatttac cgaaaatcct taattccctc aaccaaaca accagatcca 180  
 taaccaatac ttcaacacat aactttcaat aaaaataatt cccaacaca cat 233

<210> 31541  
 <211> 238  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E10

<400> 31541

accactcatc caccactcc tctacctaca catacacaag cacccaaata acgagaggat 60  
 tatttaacaa cttgttggc ataccacaca ccataccaca tcaaacctca cgtaacacca 120  
 atagcaacaa tcacatccac tacgccatca tccaactata caccataccc atcaaatacc 180  
 cccctcctt cccacacgac cacccttacc cccaactctt cctcttaaaa ccccctat 238

<210> 31542  
 <211> 427  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-060-Q1-K1-E11

<400> 31542

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 tagatatgct gataacttat ggtacataga accgaacacc taccgaagaa gggaccgggt 180  
 tagaatggac tatcacagaa gcttaaggac acttattcat tgacacttgg aattgggatg 240  
 cttggaggta acaccaactg gaatgatgga ctctcaatag ctgaaagact tgtcaaactc 300

catgaaaggg aaagtgattg gtggtatgca anaaaaaaaaa ggtttacatt acctgaaagg 360  
gcattngctg ttgattgggt ttttgctgat gggccacctg ggaatgcaag gaattatgat 420  
aacaatg 427

<210> 31543  
<211> 425  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-060-Q1-K1-E12

<400> 31543

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gccatacaac agtgtcctgt ccaccactc cctcctcgag cacactgatg tggctatcct 120  
gctggacaac gaggccatct atgacatctg ccgccgttcc cttgacattg agcgcccaac 180  
ctacaccaac ctcaacaggc ttgtgtccca ggtcatctca tccctgactg cctccctgag 240  
gttcgatggg gctcttaacg tggatgtgaa tgagttccag accaacttgg tgcctaccc 300  
gaggatccac ttcatgcttt cctcctatct gggggcctcc agtcatctct gctgagaagg 360  
cctaccacga gcagctgtct gtggccgaga tcaccaacag cgccttcgag ccctcctnca 420  
tgatg 425

<210> 31544  
<211> 278  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E2

<400> 31544

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cttttgacgc gtgtaagcac aaacgttttag acagaccgag agcagcagcc agtgaacctg 120  
ttatggtttt gcagttgttc agtacggcag aatgttggtta aaccgtagct cagagatgta 180  
ttaccagtgg cgctaagctg tactgttacg gtgtataatg cggatacaaa taaacaatct 240  
agcgggtcat taaagcctga actcagataa catgttct 278



<210> 31545  
<211> 421  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E3

<400> 31545

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ctgatagaca acctaataatt cttgcggaat atatagcttt ccaattaaaa aatagagttt 120  
cattccgaaa agcaatgaaa aaagctattg aattaactaa aaaagcggat ataaagggaa 180  
taaaaatcca aattgcgggt cgtctagcag gaaaagaaat tgcacgtgcc gaatgcatca 240  
aaaagggtag actacccctc caaacaattc gcgctaaaat tgattattgc tgctatccaa 300  
ttcgaactat ctatggagta ttaggtgtca aaatttggat attcgtagaa gaagaataac 360  
taaccatgtc ttcccattcc gcccagtgat agaataaaaa agacaagaac cttgtttttt 420  
c 421

<210> 31546  
<211> 428  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-E4

<400> 31546

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gggtctgggt ggaatcataa agtgtggtag aaagaactac atatagtttt ttctaccaca 180  
ctttagattc tttctattat attatcttga atctacatag aatcgattag tagattgaaa 240  
tagtagtcta attcaacttc ttttttctact gcatccactt aatttcaatc aagtcaaaat 300  
caaaaaaatc gaagataatt cttcattgaa agaatccaaa gagggggaga aaaataatac 360  
gagaatagac tagaatagat tatagtaaaa gaaaaaaagt aaaaagaaaa aacctacgaa 420  
tctttcat 428

<210> 31547  
<211> 427

<212> DNA  
 <213> Zea mays  
  
 <223> unsure at all n locations  
 <223> Clone ID: LIB3068-060-Q1-K1-E8  
  
 <400> 31547  
  
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 cgcgcgcaag gcagcaaacg cgccgcgcac cggaaggccc cggggagctg cacgaggtgg 120  
 cccatttgcg gcatggctgc tacggccgac gccgctggcg tcgagttccc gctcattggc 180  
 gttgccgtgg ccacgctcat cgtgacggtc cttgtcgcgg ccgtgatgcg ccggcgacga 240  
 cgtccctggc accaggcgcc tctggtggag gggaaacccg caccagaggc aggctgcgcg 300  
 gtcagcgatg gcgggacgga cgtcatcatc gtcgggcgccg gggtagctgg atctgcgctg 360  
 gcatacacgc tncgaaagga tggccgtcng gtgcatgtca tcgaaaggga tctgacagaa 420  
 cctgaca 427

<210> 31548  
 <211> 315  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-060-Q1-K1-E9  
  
 <400> 31548  
  
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 tatgggacat cttttgtaga ggtccactaa gcacccata ttacacctca tgtatcagga 120  
 atagctaattg gcacatagtc aatggaagga tcatatgttc cctctttccc atgatatatg 180  
 ccctctttta tccgtaagtc taccttggcc ttctactctg ccgctaaaag ctctgcattc 240  
 tgcattgtcg acaggagagt gcttgctata tgactgcaac ctatactggt ggcggatcac 300  
 cattctgaat agggc 315

<210> 31549  
 <211> 268  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-060-Q1-K1-F1

<400> 31549

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tgagtcgatg atggcactcc caatggaaaag gaggaagagg tggcttatga tgcagctaag 120  
gaagtgaaac aacttatatg tgaacttaga tctctgtatt gaactgattg tgtgaacttg 180  
tctttgtgaa acttttgtgt gtgaacttga tggctatgtg aaactgttgt gtgcgaactt 240  
gatggcttta tgaaactact atgtgaag 268

<210> 31550

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F11

<400> 31550

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tgagtcgatg atggcactcc caatggaaaag gaggaagagg tggcttatga tgcagctaag 120  
gaagtgaaac aacttatatg tgaacttaga tctctgtatt gaactgattg tgtgaacttg 180  
tctttgtgaa acttttgtgt gtgaacttga tggctatgtg aaactgttgt gtgcgaactt 240  
gatggcttta tgaaactact atgtgaag 268

<210> 31551

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F12

<400> 31551

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gtggccgaac tccgcttggc gccgtctacc ggccggggcg gcgtgtcgtt ccgcgcggcg 120  
ccggcgccgg cgcgagggtc cgaggcggca cgcgcgaggc tgagctcggc gctgggtgatc 180  
agcctgagca cgggcgtgtc gctattgatg ggcacgatac gtcttcttca acttccagcg 240  
ggagaacgtg gcgaagcagg tgcccagca gaacggcaag acgcacttcg acgccggcga 300  
cgagcgcgcc aaggagttcg cggcccttgg attttttcca agtctaacga cccagtgggc 360

ttgaacctcg tcgacgtcct cgcttgagc tcgatcgcc acata 405

<210> 31552  
<211> 322  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D12

<400> 31552

cccacgcgtc cgctctcgcg gacatactgg acagctcacc cgattccggc acggaagaga 60  
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aggccaggat gcagatgata acccggtgtg tcctcaagag cctccagccc ggtgacgtgg 180  
tcttcaagaa ggtatcccg gcggtctact gcgccttcg tggcatcctc ttaggtggca 240  
gtggtcctaa gggccagaag ctggcggacg cggcattgcy ccgtatcgcc gccaccaagg 300  
ttgtccacag ggtgttaaag gc 322

<210> 31553  
<211> 448  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-060-Q1-K1-F2

<400> 31553

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gagatcaagg tcgtcacggg cagcgacagc agcaccgccg tcaccttcgg ctgcaactcc 120  
tggtgcact ccaagttcga caaccggaa agcgcatctt cttaccctc aagtcctacc 180  
tgccgtccga cagcccaag ggcttgagg acctgaagaa gaaggacctg caggcgcttc 240  
ggggcgacgg ccacggcgag cgcaaggcgt ccgagcgctg ctacgactac gacgtgtaca 300  
acgacctgtg cgaccggac aagaaccccg nccaccagcg gcccggtgctg ggcggcagca 360  
agcgttacc gtaccgcgc cgctgccga ccggtcgccc ccagaccagg aaggaccccc 420  
gaggcgatgt gcgccatggg cacaacta 448

<210> 31554  
<211> 408

<212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-F3

<400> 31554

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gtttcacaat ttaatgaatc ctccacttat ttgatgggat ggttaagaga ttacctagtg   60
ggtaaactct tcacaactta ttaatggata taatcctttt gggatgaata gtttatcagt  120
atgggcttgg atgttcttat ttggacatct tgtttgggct acaggattta tgttcttaat  180
ttcctggcgt ggatattggc aggaattaat tgagacttta gcatgggctc atgaacggac  240
acctttggct aatttaattc gctggagaga taagcccgct gctctttcca ttgtgcaagc  300
aagattggct ggattagccc acttttccgt gggttatata ttcacttatg cagctttctt  360
gattgcctca acatcaggca agtttgggta atttagttat tttttttt                408
  
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<210> 31555  
 <211> 450  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-060-Q1-K1-A9

<400> 31555

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ccccctctac aaggacgact ggctggtggt ctactacacg gcggggcagg cggacgtggt  180
gcaggtggac gaggtgggct acaacaagtg cgactccacc aacgccatct acaactacag  240
caaggggcgc agcttcgcct tccagctcaa cgagaccaag acctactact tcactctgcag  300
ctacggctac tgcttcggcg ggatgcgcct cgccatcaag gccgagaagc tgccgcnnnc  360
cccggggcgt cgcgcgcgcc gtccgtcagc gaccgctccg ccgncgccat cgcgcgcttc  420
gccaggtccc acgcgcccgt catctacgcc                                450
  
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<210> 31556  
 <211> 353  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B10

<400> 31556

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cggacgcgtc gtcggacgcg tgggaagaac tgggtaatca tgaccgagtc cctgagacgt 120  
actagatgat aaatgtacta cgtcgtatca tggccgtgga aggggcccgtg gggatcgtgg 180  
tagttataga ggctgatact gagggggata cagtcgtggt ctaactgctg ctgctacatt 240  
cattgaagat caagctcagt taccaagcct cagtgggaag tgaaaggctc acaaatgatg 300  
atgtcaccta tcgttgtgtt gtctgctagt tggatattat ttatatattaa att 353

<210> 31557

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-B12

<400> 31557

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ggcaaatcag gctgtggagc gggcagctgg tactgatggc caaaagataa catacgggtg 120  
cataaaacac cgtttgggcg atctatttta tcgcctagta tctcaaaagt tcgaggatcc 180  
tgccgaagggt gaagaagctt tggtcggcaa atttaagaaa ctgtatgatg acctcaccac 240  
tggtttccgc aatctcgaag acgaggcacg gtgaactagt gtagattctg tgtaaacaag 300  
gactgccaaa tgttttataa gatacataan aaatTTTTTT tgtagattga gatcatctgt 360  
aagaattatt ccacccgttg caccatctct tcgccaccac tgtttttagtc atcggtgcct 420  
gatgggca 428

<210> 31558

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B3

<400> 31558

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agtgaccatc aaaggagttt ctcaaatcag gctggtgttt ctacagtaga tggactagaa 120  
 gatccccca tgggtaagtc tcagaatgtg catacgttta atgaggaaga atttgagaga 180  
 agtacggcag cagcggctat gaaagaggct atggataaag ctgaggcaaa gttcaaacaat 240  
 gccaaaggaag tacgagagag agagcgtgat gcaaagctta gaaatagaga acaacaggaa 300  
 cgagataatg taataaggtc gtatgccag gatcgtgagg acaaagagag aaaggaaaga 360  
 ctagaacaag aaagagagat gaggca 386

<210> 31559  
 <211> 244  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B4

<400> 31559  
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 aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaca taaaaaaaaa acaaaaaaaaaa 180  
 agaaaaatga acaaccacta caaaactaat gaagtcacct acaaaaatga tcaaaagacc 240  
 aata 244

<210> 31560  
 <211> 416  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B5

<400> 31560  
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 gttgttgggt ccgcggtagg ctggcgaggc ggtgcttggg acgctcgaag gggcttgaga 120  
 agagagcaac aaaagctggg ggggatgggt cacatgaagt cgcacgacag atggcactgg 180  
 cggcccttca acaggctcag gaacagcagg ttagcctcca agaacaagcg cgccgacgcc 240  
 catccaagca ccgaggcccc ctcgacgtca agcaacacgg cctctgcgga cgttagcagt 300  
 gcttctcagc cggcagcggg cagtgcata gcttatatat caacaacaat ggactaggat 360

gtgaagctgg ggccgcgtag tagtccataa gacttggttag aacagaccat gtgagt 416

<210> 31561  
<211> 333  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B7

<400> 31561

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accgcaacga ggggtggcgcc atggttccca tccgtgtgca cacagtcctc atctctaccc 120  
agcacgacga gacagtcacc aacgacgaga ttgctgctga cctgaaggag cacgtcatca 180  
agccagtcac ccccgagcag tacctcgacg agaagacaat cttccacctc aacctcgtctg 240  
gccgcttcgt catcgccgga cctcacggcg acgccggcct cactggcccg aagatcatca 300  
tcgacaccta cgggtggctgg ggagcccacg gcg 333

<210> 31562  
<211> 355  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-B8

<400> 31562

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gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca 180  
gcacctacgg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc 240  
gcggcttcgg ctctcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgagggca 300  
tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccg 355

<210> 31563  
<211> 224  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-C1



<400> 31563

cggccttggg tccgcgacgt cgcacctctc tctctctcta gttctgtcga tatgtttttt 60

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actgtggaat ggtttctgag cagagcgtgg cggagctgaa gcagaccctg ctggcgacca 180

cgctggagct ggaagctgcg aggggaagagc tgaagcggaa ggag 224

<210> 31564

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-060-Q1-K1-C10

<400> 31564

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catgaaatgc agatggagtc ctggctgcct tgagagtatg atgcataaca gtgatagctt 120

cagtgcggag tctgctataa ttgaaactga tgttttcatg gagaaatcaa ccccgacagt 180

gaagtttgag attcagcttt acaaaacgag ggatgagaag taccttcttg acctgcaaag 240

ggtcagtgga tcacatcttc tctttctgga cttgtgttcc gcctttctaa ctcagctgag 300

agttcnttga gcctgacatg attggctttc ccccaaaaaa aagcacttcc ttgatgcacc 360

caggtggagt tcaaggtaca tttgagatgt acataatgac catttttaat cct 413

<210> 31565

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-C11

<400> 31565

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cttagtctct tattagctct aggtcttagc tagccgcgcc actccttcgt gtagccatca 120

gcctttctcat cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc 180

gaggaagcgc ccgtggtgga gaccccgccg ccggccgtcg tgcccaggga gtctgcccc 240

gccgaggccg aggccgagggc cgaggctgct gctcctgctg atccccgagga gcttccccgcg 300  
 gccgagcagc aggcagccgc cgaggcgtgg ggggaaagggc cgcggtcctt gctgggtgccg 360  
 aggagcccgt cgcgggccgaa ccggccgccc aggcggagggc t 401

<210> 31566  
 <211> 429  
 <212> DNA  
 <213> Zea mays

<223> unsure at all n locations  
 <223> Clone ID: LIB3068-060-Q1-K1-C12

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 ttaacagatg ggaagctggc caagtttttg cacgtaagtt gatgctcagt ctcttagctg 180  
 atttccagca acagaaaaca ctggttctaa atccgaaatt tgttgatggg attagatcaa 240  
 ttctgcgcaa cacaagcttg gataaggaat tcattgcgaa agcaataact ttgcttggtc 300  
 aaggggagat tatggatatg atggaagttt tgggnncccc agatcctgat gcagttcatg 360  
 ctgtccgtaa ctttattaag aaggagcttg ccgtgcaact taaagatgat cttcttgctg 420  
 ctgtgaaaa 429

<210> 31567  
 <211> 296  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-C3

<400> 31567  
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 cagggttggc gggccgttaa gcagaaaaga taactcttcc cgaggccccc gccggcgtct 120  
 ccggacttcc taacgtcgcc gtctgccggc acgtcccggc tcgggaaatc ttaacccgat 180  
 tccctttcgg gtgacgcgcg tgatcgcgct atctgccggg tttcccaccg cccttaagat 240  
 cggcttacct atgtgcaagt gccgttcaca tgtgaacctt ttgcttttcg gccttc 296

<210> 31568  
 <211> 287  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-060-Q1-K1-C5  
  
 <400> 31568  
  
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 tatgggtctga aattacaggt cttagtgccg ggtttgtctg accgtgaggc ggaaaatata 120  
 actctctacg aggccctcagc cgctcgtctac ggacttccta acgtcgacgt ctgccgccac 180  
 gtcccgggttc gggaaatctt aacccgagct ccctttccgg tgacacgcgt gatcacgcta 240  
 tctgcctaga ttcccccgtc ccttaagatc ggctgacca tgtgcaa 287

<210> 31569  
 <211> 325  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-060-Q1-K1-D1  
  
 <400> 31569  
  
 cccacgcgtc cgcccacgcg tccgcgtcgt ccctgcagcc gcaagaaagc tcttcttgcg 60  
 gggcacggcc gcgtccacca tgaacgaggc atcggcgagc tcgccggacg ccgaggagaa 120  
 gaagacgacg actgtcttcg tggccggctc gacggggcgc accggcaagc tcgttgtgga 180  
 gaagctgctg gctaagggat tcggcgtcgt cgccggtacg acggacgtga gcagggccccg 240  
 cggcagcctg gcccaggacc ccaaccttca gctcgtcagg ggttacgtta cggagggagt 300  
 cgacaagctg gtggaagccg tgcgc 325

<210> 31570  
 <211> 172  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-060-Q1-K1-D10  
  
 <400> 31570  
  
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actacagtat gccgatgatt accaacacct taagcaccag cctacaaccc cg 172

<210> 31571  
<211> 420  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
<223> Clone ID: LIB3068-060-Q1-K1-A4

<400> 31571

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accggccaag aaggctagga agaccaagaa ggttgcaagt gttagtctcc tggggttgat 120  
ttgcgttgca atgctttgtg ggtgtttgat tctgcagta aatcggatgt atgactctgt 180  
tgatgctgga gaaggctgctg catacgggcc atctcatcgt gggagggtgc tggctgttga 240  
ggggcctcat gataatgttt cagatgggtg cgatecaaag ccgccacagc gtgccagtga 300  
gacgcttnca gcaactgttg atctacaaa gaatgggaag catgtcaaga ttaatgggaa 360  
tcttgttatt aagtcgattg ttgctagtga gatagcttca ttgcaaattg ctggcaatga 420

<210> 31572  
<211> 309  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-D11

<400> 31572

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ttatttatcc ttctttccat tttttctat tgttctttcc tttttcaatt taattctttc 180  
atttttttta attttttcc ctttttaata cttttgcttt acttattttt ttctcttttc 240  
tgtttattcc cttttggcct cttttctttt tttcttacat gcctttattt ttctcttttc 300  
ccatttttt 309

<210> 31573  
<211> 237  
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G8

<400> 31573

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gctggaccgg ctgccgacg catacggcga cggcggtcgc gccggccacc acgcggcgca 180

cggtcacggt cacggacgcg ttcacgggct cggcggcagc tgcggatcgc cggtgga 237

<210> 31574

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-G9

<400> 31574

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gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctcccttcac aacgccttca 180

gcacctactg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cataggtccc 240

gcggcattag cttcgtcacc ttctccactg aggatgctat gctgaacgcc atcgagggca 300

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<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3068-059-Q1-K1-H1

<400> 31575

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gagcgggagc cctcgtgcc gccgtcgag gccgtggacg gcggcgacga cgacgacgac 180

!  
 gacctggacg ccacgtggaa cgccatcatg cagaagacgc gcccggcggc tccggcttcc 240  
 acccctccag ctccagctcc agctcccgtt cccgccgcgc accatcagca acggccgctc 300  
 ccgagggccc gggacccgtc ggtcggcgcc gaggagatga accggcggtt cgacgacttc 360  
 atcaagaaga accgcaactc cttcggccgg caataggcga cctccgttac gatccgacca 420  
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 <211> 290  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H11

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 ttccaacttc atacctatgt ccacgtgtca cctaattcca attccactgc cctaagctat 180  
 tacaacttac atactggaaa aaccttccct ttccccaaact taatcacttt gcacctaatc 240  
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 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H2

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 tccgccggcg ccaagattaa tgacgccgat gtagccaaac agatccagca gatggtgcgg 180  
 ctcatccgcc atgaggccga caagaaggcc aacgagaact ccgtcttcgg ctacgaggaa 240  
 tacaacattg agaagctgca gcttggtgaa gctgagaaaa cgacgattag accagactat 300  
 gaacgcagag agaagcacgt tgaaatacgg aagaaaaatg agcactctat gcagatgaat 360  
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<210> 31578  
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 <213> Zea mays  
  
 <223> Clone ID: LIB3068-059-Q1-K1-H3  
  
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gatcggccaa caaggcaaga ggcgcttcaa tacacatgga agatgagcga gtacttctga  180
tacaaagagt gttcggtagt tattatcaaa ataaataagc cgagtaaaac tccatatagg  240
atccaacagt taccatTTTT cattaatcac agtttaattc tttttctgta ccgacagttt  300
gtacgcgagg aatgggtcaa ttcataacc atggtgagca aatgtaagtt tactccacac  360
tagatgtgta tagcttggtt ggtgctactg ctatcgatgt aatagcgggc cacgtattta  420
cttcacatgt tctgtggatc aatatactat gactgatgtc                               460
  
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 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-059-Q1-K1-H4  
  
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ttctgagatg agtcccatg ttcataatat ttgcgctgtg ctaaatgagg tataatcaat  180
aagtgccttat gctccaattc ttttatggtg accatctaaa atagaaaaca gtatgacaat  240
tgctatgtca tcaaacaatga tcatcatggc aaatcttata tcccaagctg tttatatgct  300
caacaggccg cacttgaaga aatctatatc agtttgagga aaactccagc tga                               353
  
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 <211> 454  
 <212> DNA  
 <213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H5

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gttgcatggc ttgcaaggga ggggaagctg tctgtgatcg gaccactatc catctaataca 180  
tcaaggcgga agcaagttgt cctaccattc ccgatgctct catagtgggt atcacgcggg 240  
acaaggggag gagtttctgc atgctatcct agtttgcctc ggacagaggg gagtgtgcat 300  
tgagattaag ctttgcctcg gacagaggga ggccaaagta agtttggggg aagccttcca 360  
acttggcacc gcgttgacag atcgaggtga attaacgggc tcgatgttgc gggtaacat 420  
gaatgggaac aagggtgctc tcacgtaat tgat 454

<210> 31581

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H7

<400> 31581

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tgcgatcac cggcgggagg caagggaag ctgtgggtgc gatagcggtc gctgacgcac 180  
gcttggcggg gatcgcttac ttcacccgcg tcatccccga cttccccaaag ccagagatca 240  
tgttccacga catcacgacg ttgctgctcg atccccacgc gtttcattac accatcgacc 300  
tctttgtcga gcggtacaag gaccaatgga tcaccgtggc tgctggcggt gaagctagac 360  
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<210> 31582

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H8

<400> 31582



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gcgagcgaga aattgcatgg gacatcaagg agaagctagc atatatagcc cttgactatg 120  
agcaagagtt ggaaactgcc aagaacagct cttcagttga aaagagctat gagctacctg 180  
atggacaagt aatcaccatt ggtgcagaga gattcaggtg ccctgaggtc ctcttacagc 240  
cgtcgatgat tggatatggaa gctgctggaa tccatgagac aacatacaat tcaatcatga 300  
agtgtgacgt ggatatcaag aacgacctct atggtaacat tgcgctcagt ggtgggttcga 360  
ctatgttccc gggatatcgt gatcgtatga gcaaggagat cactgtcctt gcaccaagca 420  
gcatgaagat 430

<210> 31583  
<211> 200  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-H9

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atgagatgat caaatcagat gcgcccgaac acttacatcc tgattcattt aaggctatca 120  
acgactaacg cattcccatg tactacagcc ccattattca tgtccagctg ttcattccact 180  
tctctgtata atagcccaac 200

<210> 31584  
<211> 188  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-060-Q1-K1-A1

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cacactacac gtacggatta aacgaaaagg gggccagaac acgagcctaa cggagacaaa 120  
ccagctctcc tgggcgcccg taacccttgc tagcctcgcc agggtcggac cagctctccg 180  
agtcgact 188

<210> 31585  
<211> 427  
<212> DNA  
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<223> unsure at all n locations  
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gccaccgctg cgacagcggg tgccagggcg ctttctacac ctacgacgcc ttcattcgagg 180  
ccgccagcaa gttccccggc ttcggcacca ccggcgacga gcagacgcgc aggcggggagc 240  
tcggcgccctt cttcgccag acgtccacg aaaccaccgg tggatgggag actgctccgg 300  
atggaccgtt tgctgggga tactgncgg ggggggggtg aaggaacaga aacagacgga 360  
cccaccctac tatggacgag gaccataca gctaactcat aagtacaact acaggctcgc 420  
cgggcaa 427

<210> 31586  
<211> 425  
<212> DNA  
<213> Zea mays

<223> unsure at all n locations  
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ccatgttcca gagcatgctg agccaccgcg gcgacagcgg gtgccagggc gccttctaca 180  
cctacgacgc cttcatcgag gccgccagca agttccccgg cttcggcacc accggcgacg 240  
agcagacgcg caggcgggag ctgcgcgct tcttcggcca gacgtccac gaaaccaccg 300  
gtggatgggc gactgctccg gatggaccg tttnttttt gcctggggat actgccgggt 360  
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taagt 425

<210> 31587  
 <211> 304  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-060-Q1-K1-A2  
  
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 agtgagctgt gtgtgtgtgt agtatataca atattcgat aaactgctgg tctcaatcga 180  
 gtcgtcgccc aatcggttga atcggggagc agaggcatcg gccccacgcc caatcatccg 240  
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<210> 31588  
 <211> 426  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-060-Q1-K1-A3  
  
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 accgatgaca tgaagtctaa aaaccgcgct gatagaagcg gtgttgcag cagcactgct 180  
 cctgctcctg ctgcagctcc tgaaaagact tcccgctgcag ggtccttctc tttcaaactc 240  
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 aagaagacct ttgctattga tgattgtgat tccagacaat ctgtctatgt gtatggatgc 360  
 aaggattctg tccttcaagt aaacggcaag gttaacaata tcactggtga caaatgcact 420  
 aaagtt 426

<210> 31589  
 <211> 379  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-059-Q1-K1-G7

<400> 31589

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atcgcaaadc gaccacagta ttagcgcaac atcctgcaat acagtacaat acatcacatc 180

actagtcaag cctcattacg ctactacact ttcttcaaga ggtgggtactc tgatatcgcg 240

aaaccgaacg acgcaacgag cacgtaggca gcagcggtact attatgatac gtactagagc 300

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<210> 31590

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-D8

<400> 31590

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agttggcagt agtggcgacc gccgtggtgg ccttgggtgct gctggcgggc gctacctcgg 180

aggcggccat cagctgcggg caggtggcgt cggccatcgc gccctgcatc tcctacgcgc 240

gcggccaggg ctcggtgccc tccgcgggct gctgcagcgg cgtcaggagc ctcaacaacg 300

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<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-E11

<400> 31591

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tatctaaca actaaaatga atacaatcta aaatccctta accaccatcc aacttaacgc 180

aactcctaaa ccaaacaacc tcaataattc caactacaat agcatatatt cacactgttt 240  
caaaaaaaaaa actcctagaa aaacctctga cctaaccaac cttttcccct t 291

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<211> 436  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-E12

<400> 31592

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tatgaaaaat gtaaccatt cttttgtttt tttagctcac tggccattcg ctgggagttt 240  
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attgattttt tttggaaagg gagtgtgtgc gagttgtcta tttcaagaat agattggatc 360  
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<211> 330  
<212> DNA  
<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-E4

<400> 31593

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gcatgctctg gaaatactga ccctttaatt ctctatacat actatccata agacactgta 240  
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 <212> DNA  
 <213> Zea mays  
  
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 cagcaggcag cggccggcgg caccgggacc tccacggaca acaacaagaa caaggcaggt 300  
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 <211> 230  
 <212> DNA  
 <213> Zea mays  
  
 <223> Clone ID: LIB3068-059-Q1-K1-E9  
  
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 <213> Zea mays  
  
 <223> unsure at all n locations  
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 agatcactgg aagcaacatt tttgcagatg ggaaagaacc aatccgcgag cgtgtggggc 360  
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<210> 31597

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F4

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<210> 31598

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3068-059-Q1-K1-F6

<400> 31598

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 gccgccttcc tcgtctccac tccgggcgcc tacaccaccg tccccggaac cctcctctgg 180  
 tggacacgtc acctccgcc actcgccgaa tccgccacgc tactcgcccg ttcccgcccg 240  
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